



Missouri S&T Magazine, April 1988

Miner Alumni Association

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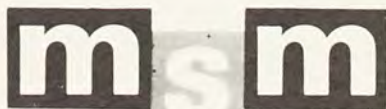
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m s m *Alumnus*



University of Missouri-Rolla

April, 1988



Alumnus

MSM-UMR Alumni Association
University of Missouri-Rolla
Rolla, Missouri

Volume 62
Number 2
April, 1988

On The Cover

On the cover are Kristin Lexa, winner of the St. Pat leprechaun-look-alike contest, and one of the world-famous Anheuser-Busch Clydesdale horses (name unknown). Both were important attractions at this year's St. Pat's 80th annual celebration. Kristin is a freshman in arts and sciences and a member of Zeta Tau Alpha sorority. She is the daughter of Lt. Col. and Mrs. David Lexa, Rolla. Col. Lexa is chairman of UMR's ROTC military science department. The Clydesdale lives in St. Louis, when he's not traveling. He's about six feet tall at the shoulder, weighs between 1,800 and 2,300 pounds, eats 25 to 30 quarts of feed, 50 to 60 pounds of hay per day, and drinks 30 gallons of water. He's very gentle. For more on the 1988 St. Pat's Celebration, see pages 1 through 5.



MSM ALUMNUS (USPS-323-500)

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1988 St. Pat's Celebration

The 80th annual St. Pat's celebration's public events were the biggest and "best ever"—the biggest and "best" parade ever, the biggest crowd for the parade and the biggest and "best ever" arrival ceremony.

The non-public events (Thursday afternoon gathering, games and student knighting ceremony) were subdued somewhat, due to prior events—see February issue of the *Alumnus*. It was mostly a UMR student celebration. There weren't as many visiting students from other colleges or universities as usual.

In any case, those participating enjoyed the events enormously. The following pages will show some highlights of various 1988 St. Pat's activities.

St. Pat was Michael J. Gross, a senior in metallurgical engineering from St. Louis and a member of Phi Kappa

Theta fraternity. The Queen of Love and Beauty was Lara Christine Phillips, junior in aerospace engineering from St. Louis, who represented UMR's Quad Residence Halls.

Honorary Knights this year included: Dr. Donald R. Askeland, professor of metallurgical engineering at UMR; Betsey Bruce, political editor and news anchor, KMOV-TV in St. Louis; Robert S. Bruce, regional vice president of INTRAV and president of the St. Louis Section of the MSM-UMR Alumni Association; Robert M. Collins, president and chief executive officer, Rolla Area Chamber of Commerce, and director of economic development for the city of Rolla; Marvin E. Proffer, state representative for Missouri District 158, Jackson; and Lowell Wynn, assistant director of physical facilities at UMR.



The Clydesdales appear in the St. Pat's Parade for the first time since 1982.

Rolla Daily News



This year's first place float, Chi Omega's curling iron.

Rolla Daily News

"Great Inventions" was the 1988 St. Pat's Parade Theme



TKE's first place cudgel.

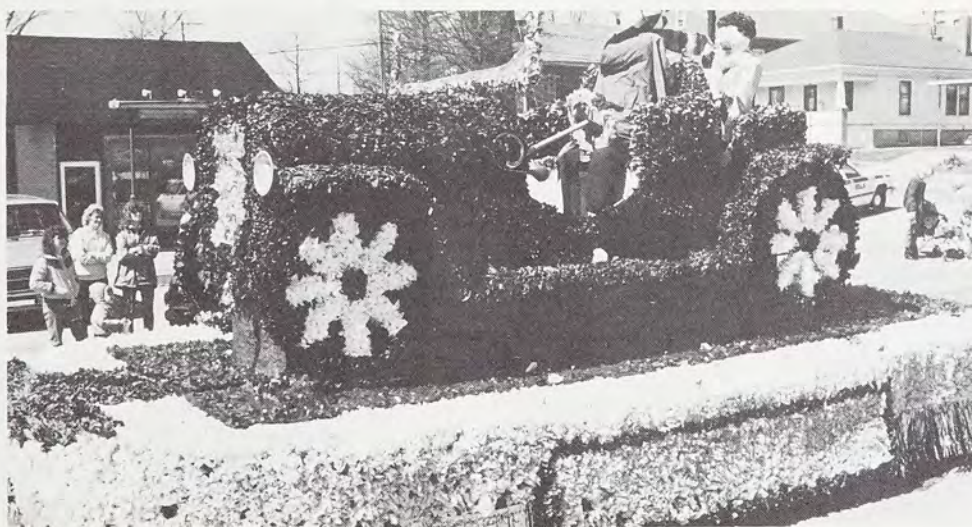
Rolla Daily News



Sig Pi's winning non-float entry—a V-6 engine.

Rolla Daily News

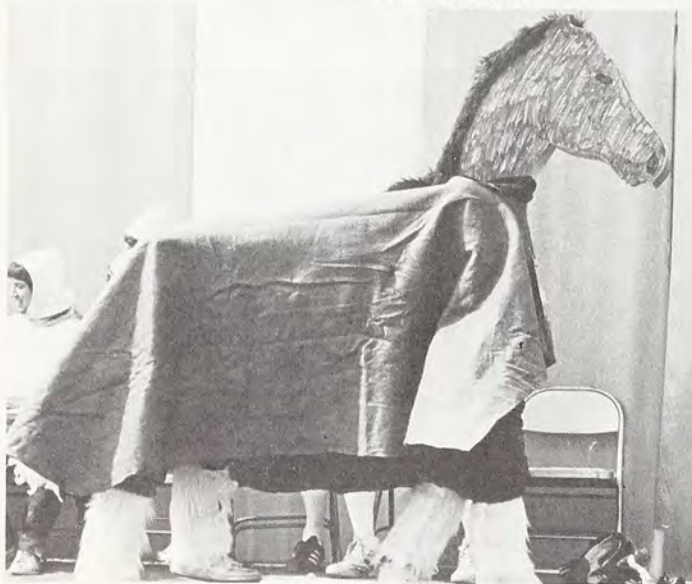
At right—TKE's float entry, invention of television; Middle right—the winners of the faculty full beard contest, Don Sparlin, first place, and Gregor Galecki, second; Middle left—RHS's second place non-float entry; Bottom—Phi Kap's Model T Ford float, which took second place.





Rolla Daily News

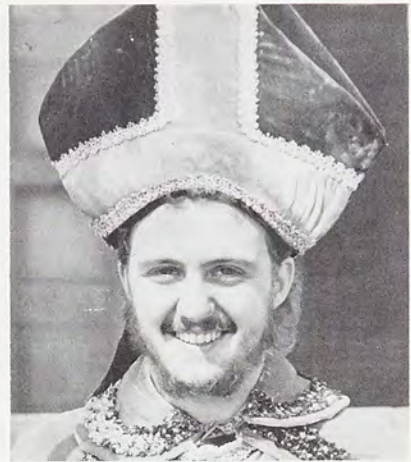
Clockwise from lower right: Dan Shipley's winning shillelagh; Chi Omega's entrants in the "Clydesdale Look-Alike" contest; Jim Falkner, winner of the student full beard contest; team competing in the "Most Sweatshirts in One Minute" contest; and St. Pat, Mike Gross, with Larry Lambert, winner of the town beard contest.





St. Pat's Queen Lara Phillips

St. Pat's Dignitaries

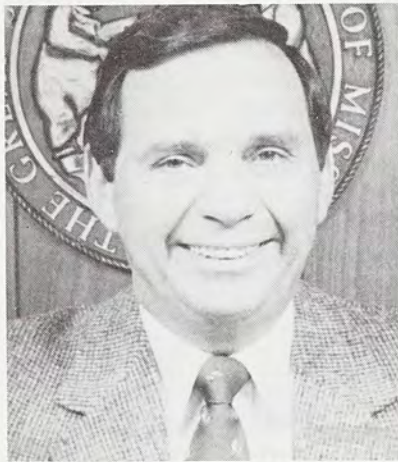


1988 St. Pat Mike Gross

Honorary Knights



Lowell Wynn



Marvin E. Proffer



Betsey Bruce



Robert M. Collins



Donald R. Askland



Robert S. Bruce



Engineering Management Dedication Ceremonies

UMR dedicated its new Engineering Management Building in ceremonies held Friday, April 8.

Participants in the ceremonies included: Wilma and Will Arnold, representing the family of alumnus Ed A. Smith, '24; Vernon T. Jones, '53, president of The Williams Companies; Tom Owens, '68, '71, production center manager, Hallmark Cards Inc.; Jeanne V. Eppe, president of the University of Missouri Board of Curators; C. Peter Magrath, president of the University of Missouri; UMR Chancellor Martin C. Jischke; and Yildirim Omurtag, chairman of engineering management at UMR. Bernard R. Sarchet, UMR professor emeritus of engineering management, introduced the speakers.

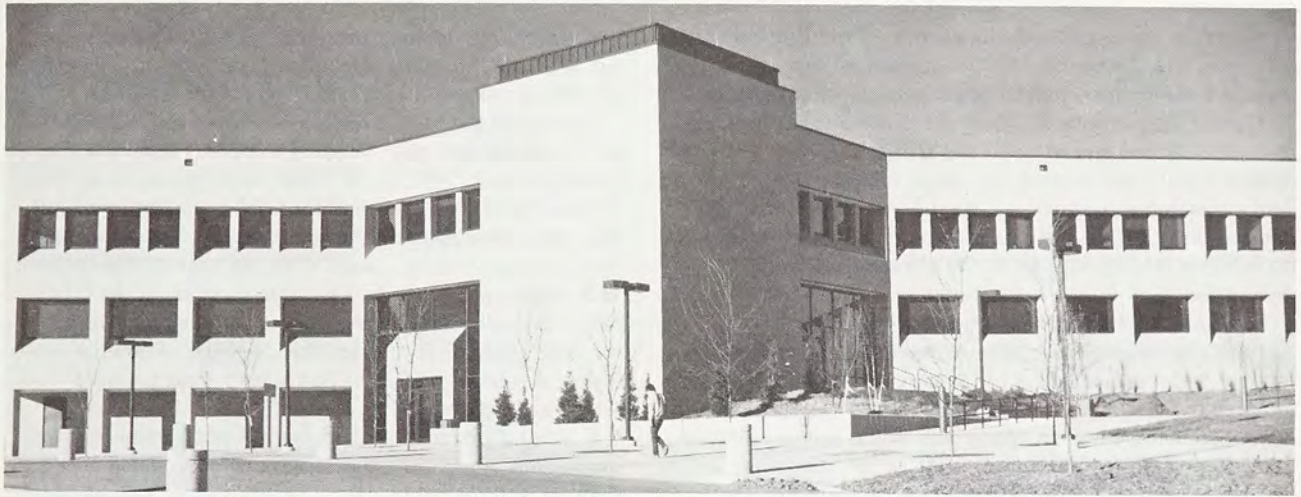
Also on the program were D. Ronald Fannin, acting dean of UMR's School of Engineering; Ed Dickherber,

UMR senior in engineering management; Sean Foote, president of UMR's Student Council; and Kevin Edwards, immediate past student representative to the UM Board of Curators.

Tours of the building were conducted following the ceremonies and demonstrations were held in the manufacturing and computer laboratories. Music for the occasion was provided by the UMR Symphonic Band and the UMR Jazz Band.

The new building was designed by Hastings & Chivetta Architects, Planners, St. Louis. Contractor for the building was RaJac Construction Co., Jefferson City. Construction began in January 1986 and the building has been occupied since August 1987.





The new Engineering Management Building, dedicated April 8, 1988.



Packaging Area of Production Laboratory



Robotics Simulation Lab

When the status of the Rolla campus of the University of Missouri was changed in 1964 from a school to a university, careful consideration had to be given to the change process.

During the previous 94 years, the University of Missouri School of Mines and Metallurgy (MSM) had built a national and international reputation for supplying excellent engineering graduates to Missouri and the nation. The idea behind elevating the campus to the university level was to enhance this reputation, not to change the nature of the institution.

In addition to strengthening graduate programs in the various engineering fields, discussions with educators, alumni and representatives of industry and government pointed to three areas to emphasize. It was agreed that computer science was an area which would become increasingly important to engineering fields as the technology improved, and that more stress should be placed on the humanities and social sciences. Also, in conjunction with humanities and social sciences, a program to provide some management skills for engineers should be established.

Since World War II, business and industries throughout the world have become increasingly complex technologically. Modern industrial management not only needs the traditional skills necessary to run a company but also needs a greater knowledge of the technical complexities involved.

At the new University of Missouri-Rolla, a program for students who already had degrees in an engineering field was started in 1965 at the master's degree level through the social sciences department. The degree was an M.S. in "engineering administration," and the courses were drawn from the fields of English (communications), economics, sociology, philosophy (ethics) and other humanities and social sciences disciplines.

In 1967, Bernard R. Sarchet was named "professor in charge" of engineering management. He began to expand the program, changing the name and curriculum of the M.S. degree and developing a four-year undergraduate B.S. degree. The program was given department status in 1968 and moved from social sciences to the School of Engineering. Engineering management received accreditation as an engineering discipline in 1979 and the Ph.D degree was approved in 1980.

On the bachelor's level, the student follows the same program as do all other engineering students for the first two years. This program concentrates on a background heavy in mathematics and science. During the third year, the student chooses a particular field of engineering and picks up the basic courses in that discipline. The final year, instead of taking advanced courses in the engineering discipline—aimed at design, research and development—the student takes the basic management courses important to the production and marketing areas of an industrial enterprise. The M.S. and Ph.D. programs offer advanced courses in management skills as well as modern manufacturing systems design and engineering.

Courses in the department include principles of management, accounting, operations research, production, packag-

ing, marketing, finance, personnel, statistical process control and computer-integrated manufacturing plus electives of either a quantitative or non-quantitative nature.

As soon as the program was established in 1968, the master's program also was offered at the UMR Graduate Engineering Center (GEC) in St. Louis as an extension activity. A majority of the students at the GEC were employed full time and were continuing their education on a part-time basis through evening classes. The engineering management M.S. degree proved to be a popular program at the GEC and, eventually—during the early 1970s—as many as half the GEC students enrolled in this discipline. Soon the degree was being offered at Springfield, Fort Leonard Wood and Jefferson City, too.

Continuing education short courses and seminars covering various aspects of the field have been provided both for industry and for individuals. The department also has developed extension programs to assist small businesses, and the larger industries of Missouri and surrounding areas. It cooperates in interdisciplinary projects on campus and is currently participating in the UMR Eminent Program in Intelligent Industrial Systems through various research projects in manufacturing.

In the 20 years since its founding, the department has had three chairmen. Sarchet retired from the position in 1981. He was succeeded by Dr. Henry Sineath who retired in 1985 and was succeeded by the present chairman, Dr. Yildirim "Bill" Omurtag. Both former chairmen have remained on the faculty and have continued to teach.

The engineering management faculty numbers 16, and enrollment includes 225 B.S. degree students, 50 M.S. degree and 19 Ph.D. degree candidates on campus with about 140 M.S. students off campus. The department has nearly 3,000 alumni. Faculty members all have several years experience in industry as well as academic credentials and both faculty and students support and are active in professional organizations.

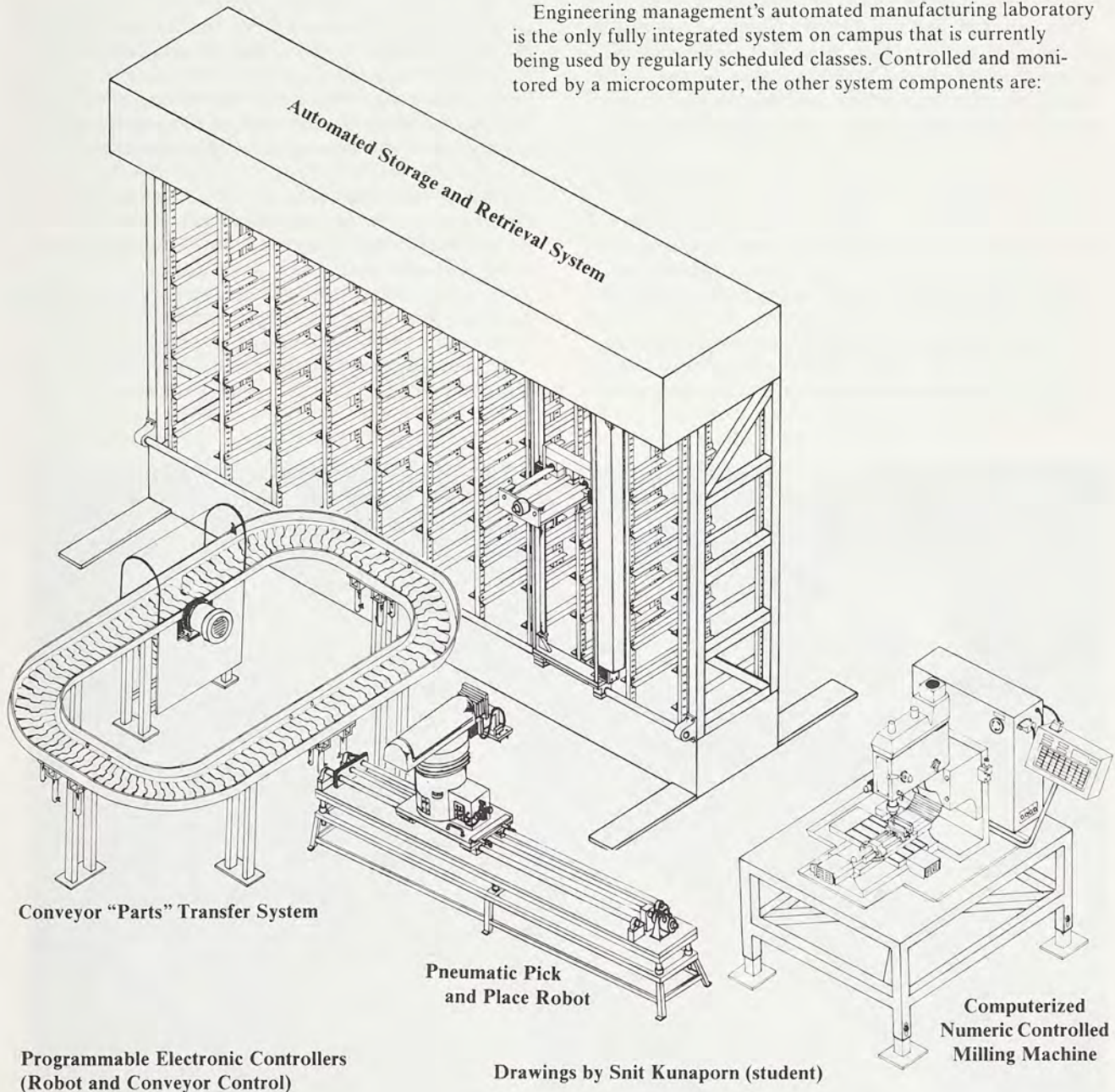
Ten years ago, Sarchet saw the need for a modern production laboratory supported by a special teaching module, classrooms and offices. Drawings were made of such a proposed structure and through the interest and generosity of alumnus E.A. Smith, '24, (now deceased) of Tulsa, Okla., who donated \$250,000, a trust fund was set up for the building. During a three-year fund raising drive, a total of \$500,000 in private funding was raised to provide 20 percent of the estimated cost of such a building.

Support was forthcoming from the Missouri General Assembly and has resulted in the completion of what is thought to be the largest, most modern and the only facility devoted exclusively to the engineering management discipline in this country.

The building has 32,000 square feet of floor space and features computer-equipped laboratories; packaging engineering and computer-integrated manufacturing facilities for teaching and research; an auditorium and modern classrooms and seminar rooms, as well as faculty and departmental offices.

Automated Manufacturing Production Laboratory

Engineering management's automated manufacturing laboratory is the only fully integrated system on campus that is currently being used by regularly scheduled classes. Controlled and monitored by a microcomputer, the other system components are:



The laboratory is available for both undergraduate and graduate research and/or special projects. Plans are being developed to allow integration of manufacturing and packaging. This will permit raw materials to be input at one end of the line and the completed, packaged product to be removed from the other.

Glass Microspheres Used to Treat Liver Cancer

Researchers at the University of Missouri, in cooperation with Theragenics Corp., have developed an innovative method of treating liver cancer with radiation contained in microscopic glass beads. This experimental method is currently undergoing clinical tests in the United States and Canada.

Dr. Delbert Day, Curators' Professor of ceramic engineering at the University's Rolla campus, along with Dr. Gary Ehrhardt, have developed a glass used to make the radioactive beads. Millions of those beads are injected into the liver's main artery and deliver radiation doses to cancerous cells in liver tumors while leaving healthy tissue virtually unaffected.

Those tiny beads, or microspheres, are 15-35 microns in diameter—about half the thickness of a human hair—and contain yttrium, a rare-earth element. The beads are made

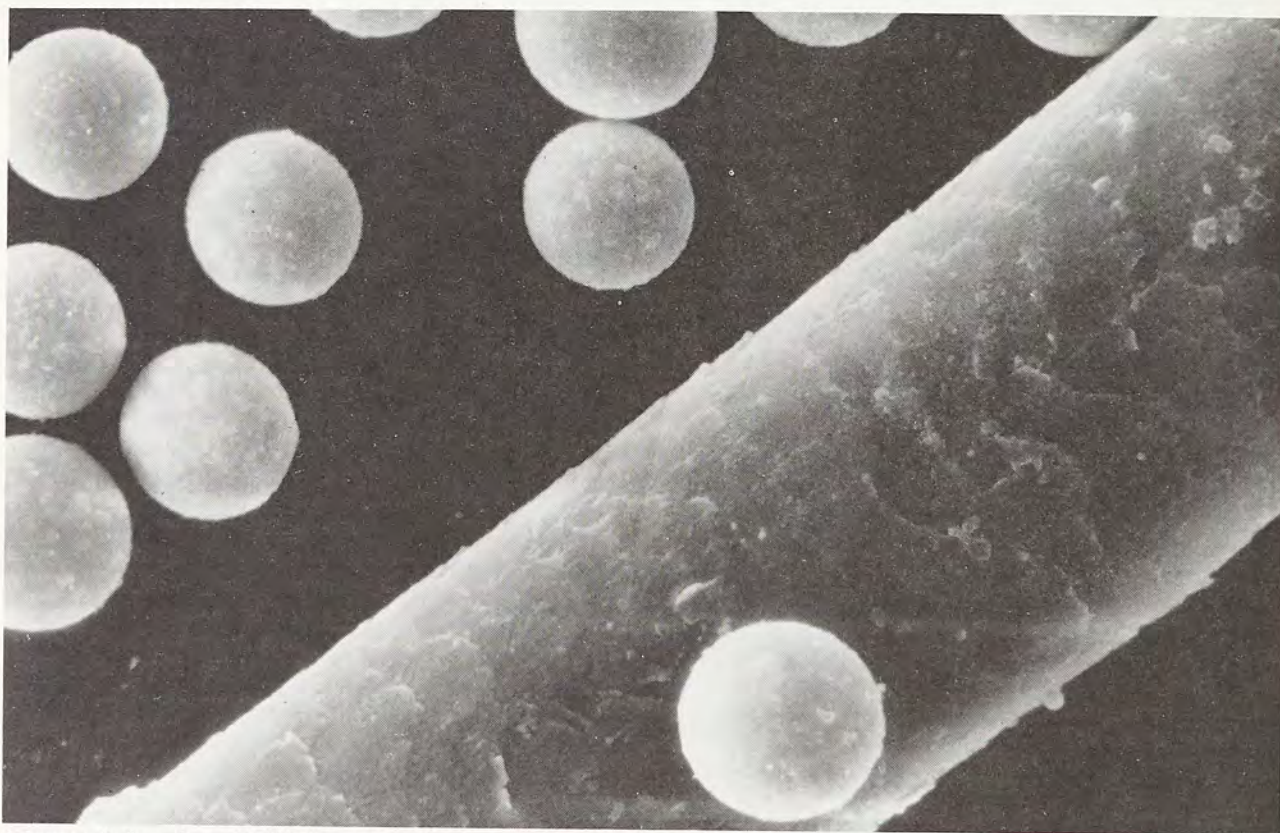
radioactive at the University of Missouri Research Reactor in Columbia under the direction of Ehrhardt, a senior research scientist.

Day, who is also director of the UMR Graduate Center for Materials Research, says that one of the body's mechanisms speeds up the delivery of the microspheres to the tumors.

"Medical researchers have discovered that cancerous tumors are more active than healthy tissue and require a greater blood supply," Day says. "Because of that, the irradiated microspheres tend to concentrate in diseased tissue."

According to Day, the glass beads have several advantages over plastic beads, which were used previously, and over external methods of radiation treatment.

"There is no unwanted release or escape of radioactivity from the liver," Day says. "and much larger doses of radia-



A human hair, enlarged 1000 times, dwarfs glass beads developed by UMR's Delbert E. Day, '58. The beads are irradiated at the UM Research Reactor and used in an experimental treatment of liver cancer. Clinical tests of the treatment are being conducted.

tion can be delivered by the beads than with an external beam."

According to Day, the glass from which the microspheres are made is extremely durable and is insoluble in body fluids. "In fact, about the only thing that can destroy them is concentrated hydrofluoric acid," Day says.

This insolubility prevents the glass microspheres from breaking up in the liver and releasing radiation to other parts of the body, which has been a problem with other types of beads used for that purpose.

Because the injected beads do not significantly affect over- or underlying tissue, radiation doses four to five times greater than those given by an external radiation beam can be delivered to cancerous tumors, Day says.

He adds that the beads gradually lose their radioactivity and become non-radioactive in about 30 days. They remain in the liver indefinitely.

After intensive testing in laboratory animals, Theragenics Corp., an Atlanta company licensed by the University of Missouri to market the beads, has conducted experiments with liver cancer patients in Canada since July 1986.

According to Julie Stephens, Theragenics project director, 42 liver cancer patients have been treated in Canada.

Tests are being conducted at five hospitals in conjunction with Atomic Energy Canada, Limited.

"Reports which we have received show that of the 42 patients treated, approximately 30 are still surviving," Stephens says. "One patient has survived for nearly 1½ years. The prognosis for most liver cancers is grave. Death usually occurs within six months to a year after the cancer is diagnosed."

Day says that no side effects have been reported by patients in the Canadian experiments. In fact, patients with previous pain or nausea lost these symptoms after treatment with the beads.

In the United States, the Federal Drug Administration recently approved experimental tests by Theragenics on volunteers. The tests are currently in progress at the University of Michigan, according to Day.

Although it is too early to make any predictions, Day is hopeful that additional uses can be found for this method of delivering radioactivity into affected organs.

"If physicians conclude that doses of high radioactivity can be delivered to cancerous cells with little or no damage to surrounding tissue, they might be able to spare patients the discomforts of present treatments," Day says.

MEETING DATA

Event/Site	Date
Lincolnland	
Springfield, Ill.	May 11
50 Year Reunion at Commencement	
Rolla, Mo.	May 13-15
Greater New Orleans Meeting	
New Orleans, La.	May 21
St. Louis Section (Golf Outing)	
St. Louis, Mo.	May 22
St. Louis Section (Baseball Game)	
St. Louis, Mo.	June 23
Homecoming	
Rolla, Mo.	Oct. 7-8
St. Charles Admissions Event	
St. Charles, Ill.	Dec. 3

Jobs

The services of UMR's Career Development and Placement Center are available not only to students but also to alumni.

To obtain information about the current job market in companies looking for people with experience, call Paul Ponder, assistant director—placement, Career Development and Placement Office, UMR, Rolla, MO 65401 (phone 314-341-4254).

For a nominal fee the placement staff will make your resume available to companies looking for experienced employees, and will send an alumnus a copy of the latest job listings for a period of six months.

Waterjet Research Forges Ahead into Alternative Fuels

Instead of gasoline or diesel fuel, engines of the future may burn a mixture of compressed air and microscopic particles of coal. That, at least, is the hope of researchers at UMR's High Pressure Waterjet Laboratory, who are studying the use of coal dust as alternative fuel sources.

"Using high pressure waterjets, we've been conducting experiments with coal disintegration," comments Dr. Marian Mazurkiewicz, associate professor of mining engineering and principal investigator of the research project. "We can now break down the coal into particles smaller than one micron." (A micron is one millionth of a meter.)

"If particles of this size are suspended in compressed air, the mixture behaves like gas," he adds, "allowing the mixture to be used as fuel for internal combustion engines."

Mazurkiewicz is quick to point out that research with such fuels has already progressed beyond theory and speculation, noting that several large companies, including General Electric and General Motors, have experimented with coal-water slurry in diesel engines.

Waterjet pressures ranging from 5,000-40,000 pounds per square inch are used for the coal disintegration, and nozzles on the jet are generally from four to twelve thousandths of an inch in diameter. According to Mazurkiewicz, UMR research differs from other research in that even though coal particles as large as 50 microns can be used in fuel mixtures, much smaller particles are being generated at UMR.

This research is important, Mazurkiewicz says, in a world of limited energy resources. "Our oil reserves aren't going to last forever, but we may have enough coal for three or four

hundred years."

Funded by the U.S. Department of Energy since 1985, the UMR research team consists of Mazurkiewicz, Dr. Grzegorz Galecki, Zbigniew Kubala, visiting scholars at UMR's Rock Mechanics and Explosives Research Center, and Lalith Wijeratne, a UMR graduate student. The team's research progress suggests that there may be many uses for a new coal-based fuel alternative.

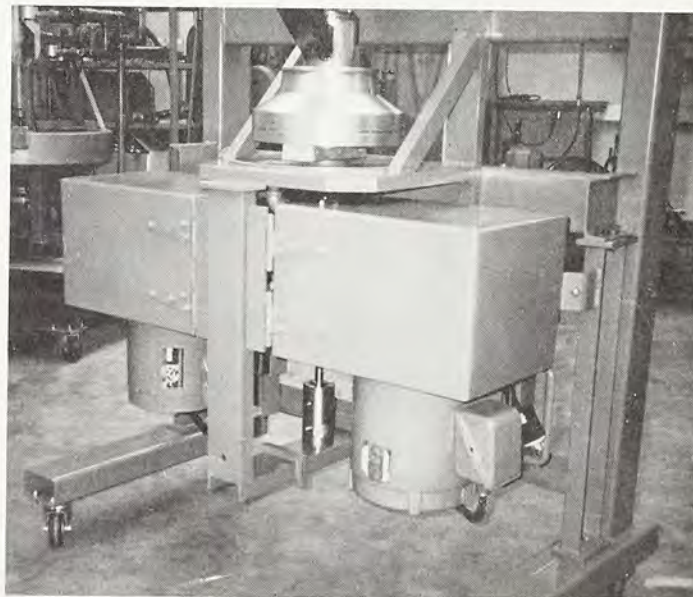
"Actually, the possible applications of this research are unlimited," Mazurkiewicz says. "Using particles of, say, five to ten microns in size, a 50-50 mixture of coal and water can be created for use as fuel for industrial power plants."

But if the research looks promising for the future, it is also decidedly problematic at present. According to Mazurkiewicz, sulfur and various mineral impurities must first be removed from the coal before the mixture could be used.

"If these substances aren't removed, damage to the cylinder lining of the engine can occur. And acid rain resulting from exhaust emissions is another possible danger," he says.

Despite these problems, however, Mazurkiewicz remains optimistic and research will continue at UMR to explore the possible refinements of these alternative fuels.

"We're ready to move upscale with our research now, improving crushing techniques and demonstrating their advantages over other disintegration techniques," he comments. "We want to show not only that the use of these alternative fuels is possible, but that waterjets are more efficient than existing milling methods."



UMR's waterjet machine in operation. The waterjet disintegrates the coal into tiny particles.



Admissions Ambassador's Activities

We are in the last stages of our 1988-89 recruitment season, and all of you dedicated alumni Admissions Ambassadors deserve our thanks for your support and hard work. Our count of accepted prospective freshmen is up by 50 students, so we anticipate a good fall class.

Welcome to new Admissions Ambassadors who have joined us recently—Helene Hardy, '83, Becky Messenbrink, '84, Larry Wolf, '79, Tony Sotta, '68, Lester Holcomb, '51, Steve and Ginny Bretzke, '85. We are anxious to involve all of you in recruiting our 1989-90 class. Glad to have you aboard!

Special acknowledgement for Mike Heitzman, '78, '83, for his work in the metro Topeka, Kan. area. Mike has visited two local high schools and discussed UMR with students and counselors. We look forward to providing materials for any other ambassadors who wish to visit their local high schools.

Ambassadors who have represented UMR at local college fairs this spring include Jim Gilstrap, '67, Bob Saxer, '61, Joe and Lea Anne Howell, '81, Frank Headington, '71, Ray Daboo, '62, '64, Bob Morrison, '71, Stephanie Cioffi, '84, and Steve Schade, '74. Please accept our sincere thanks for the extra effort on your part.

The 1988 chancellor's banquets have been successful once again. Prospective students from all over Missouri gathered to meet our chancellor, staff, faculty, alumni and current students. Four banquets were held in February and March across the state.

On February 22, in Rolla, 36 prospective UMR students and 50 parents were guests at Centennial Hall. We were fortunate to have Keith Wedge, '70, '71, '74, serve as master of ceremonies. Lindsay Bagnall, '76, Kent Bagnall, '76, Jerry Bayless, '49, '62, Dixie Finley, '68, Dave Schmitt, '80, Kathy Schmitt, '83 and Bill Stoltz, '68, all attended. Thanks for this show of support on our behalf and for your help as authorities on UMR.

The Springfield area banquet was held at the Ramada Inn. Thirty students and their parents were present to meet campus representatives and hear Chancellor Jischke's address. Alumni in attendance were Kevin Skibiski, '75, '76, Gary Bockman, '70, Jim VonBehren, '83, Vester Unsell, '50, Larry Wolf, '79, Joseph P. Wilson, '86, and Michael Vallez, '56. Nick Heatherly, '78, was master of ceremonies. Good job, Nick! We were also fortunate to have UM curator Jim Sterling as a special guest.

The St. Louis banquet was again held at the University Club. Fifty-two students and their parents attended. Art Baebler, '55, served as master of ceremonies. Alumni who turned out to show their support included Ernie Weinell, '44, '48, Joe Mooney, '39, Bill Ahal, '76, Robert Henry, '79, Gary Schumacher, '63, Jim Cunningham, '65, '70, Mary Klorer, '81, Lelia Flagg, '60, Dennis McGee, '69, Bill Falke, '65, and J.B. Peterson, '66. Special thanks to Ken Breckner, friend of Bob Bruce, '69, '70. Ken is a member of the University Club and sponsored our banquet for the second time.

Arrowhead Stadium was again the scene for the Kansas City banquet which attracted 35 students and more than 50 parents. Lu Bolon, '59, was master of ceremonies for the night. We were happy to have the following area alumni: Natalie Jackson, '81, Greg Skannal, '85, Jim Foil, '74, '75, Chris Wilson, '73, Cliff Tanquary, '57, Jim Stephens, '47, Kevin Eisenbeis, '79, Wayne Schmidt, '83, Jack Stewart, '56, Tony Sotta, '68, and Gary Keyes, '65.

We look forward to next year's series. Thanks to everyone who helped make this year's banquets a success.

Kim Hofstetter, '83
Coordinator, Alumni-Admissions
101 Harris Hall, UMR
Rolla, MO 65401

Alumni Section News

Sun City Section

On Jan. 24, 1988, Ollie and Bernie Kamper did it again. They have been arranging alumni section meetings since before this writer met them 20 years ago. First in Pittsburgh, now in Sun City. The Lakes Club, Sun City, was the site. The following people were in attendance: Roy and Kay Perry, '40; Leland Grafft, '37; Hap and Jackie Haffner, '35; Lloyd and Francis

Schumann, '43; Craig and Joan Ellis, '38; Mrs. L. Rowland Tragitt, '23; Frank and Martha Gerig, '69; Charley Kitchen, '26; Jerry and Grace Overton, '59; Ken and Erma Asher, '35; Frank and Nancy Mackaman; Bob and Sybil Lange, '37; Don and Pat Warner; Mel and Mary Lou Nickel, '38; Ollie and Bernie Kamper, '35.

After a delicious dinner, they

enjoyed a local band—playing songs you could sing at a volume you could tolerate, and with three members 80+, although you couldn't tell by looking. Remarks by Frank Mackaman and Dean Don L. Warner followed. It was an especially enjoyable evening, thanks to all who attended.



Pacific Northwest Section

The Pacific Northwest Chapter held its annual winter dinner/dance and business meeting at the Lake City Elks Club in the Seattle area on Feb. 12, 1988. We all had a good time talking, eating and dancing. The seafood buffet, including salad bar, was delicious. The following persons attended: Maria and Tom Doering, '78; Kathleen and Gerry Hammond, '50; Rosey and Vic Hoffmann, '60; Betty and Bill Woods, '59; Susan, '69, and Steve, '68, '70, Wright; Harriet and Les Spanel,

'59; and Trish and Mike, '75, Warfel. Tom Doering, president, conducted our annual business meeting. The following alumni were nominated and elected into office for the next year: president, Joe Draper, '81; vice president, Bill Woods, '59; and secretary-treasurer, Mike Warfel, '75. We discussed what the next activities should be. We decided to go to Longacres Race Track again in late spring or summer. A number of other ideas were brought up for the fall activity. We

want to thank all of the outgoing officers for their dedication over the years.

We are sorry to report the passing of Marilyn Malsch, wife of Pete Malsch, '62. They have two children, Jennifer and Cory. Pete and Marilyn have been strong supporters of MSM-UMR and our chapter for many years. We will all miss Marilyn and remember her as a dear friend.

Stephen A. Wright, '68

Alumni Section News continued

Gulf Shores Section

On Feb. 20, Herb and Helen Barnhart, '44, opened their Daphne, Alabama home to some snowbirds temporarily in the Gulf Shore area. Located on a golf course at the lake Forest Country Club, it provided a gracious setting for good food, drink and conversation. With a fireplace fire crackling in the background, everyone

relaxed. Past presidents of the Association Joe Mooney and Dick Bauer and their wives Margaret and Shirley were there. Anyone who knows the latter two knows the conversation was lively. Frank and Sandra Kewellyn came over from Pensacola, but rain canceled the "hustle" Frank planned to put on Herb. Mooneys' friends Jack and Jane

Williams of St. Louis attended, to assure the navigation was accurate.

Helen Griggs Barnhart, a Rolla native, and Herb professed to have no knowledge of that famous organization formed some years ago by alumni who shall remain nameless. Its title is: IMARGAAATAI (*I married a Rolla girl and ain't ashamed to admit it*).



Lakeland, Fla., Section

On Saturday, Feb. 13, Northern and Mid-Florida Miner alumni gathered at the beautiful country home of Jeanne and Gerry Stevenson outside of Lakeland. It was a beautiful sunny and warm Florida Day, especially enjoyable for the Missouri visitors, Chancellor and Patty Jischke and Nancy and Frank Mackaman. There was an abundance of hors d'oeuvres and libations, and the poolside setting seemed to whet appetites.

Chancellor Jischke's message brought those attending up-to-date on the state of the campus and promoted questions. After the program, it was time to return to eating, this time a delicious BBQ with all the trimmings.

Registering for the event were: Gerry and Jeanne Stevenson, '59; Martin and Patty Jischke; Frank and Nancy Mackaman; Suzy R. Black, '86; John and Nancy Keating, '73; Belding and Ruby McCurdy, '38; John and

Barabra Olsen, '42; Mary Reisse; Warren and Katherine Danforth, '35; Mike Kelahan, '69; Val and Barabra Stieglitz, '51; Leroy McCown, '83; Robert and Jean Sommerkamp, '64; Larry and Ann Murphy, '56; Leon and Del Glover, '66; Ken Hill, '83; Bill and Jeanne Weismantel, '49; Jim Menefee, '36; and William and Mely Hubbard, '49.

As is usual, some escaped the sign-up sheet.



Alumni Section News continued

Greater New Orleans Section

The first annual St. Pat's meeting was held on March 12 at the House of Lee (more Chinese than Irish) Restaurant in Metairie, La. Arrangements were courtesy of Ferrill Ford, '78, activities chairman; Curt Killinger, '73, and Bill Koederitz, '51; and were coordinated by Section President Wally Stopkey, '52.

The evening started at 6:30 p.m. with a social hour, followed by the invocation from Paul Whetsell, '61, and a dinner of assorted Chinese family dishes. Wally Stopkey, '52, section president, then officially welcomed the Miners, spouses, guests and began the business portion of the evening by noting that the new officers would be elected at our next get-together, a crawfish boil set for May 21. Curt Killinger, area alumni board rep, gave the

group an update on the recent events of the Rolla campus and activities of the area. Curt represented MSM-UMR at the induction ceremony of the University of New Orleans' new chancellor.

We were honored to have Mr. Holt Fastring, P.E., accompanied by his lovely wife, Elaine, to speak to the group. Fastring is a forensic engineer in the New Orleans area and spoke about the credentials required, typical types of clients and cases, and gave several interesting case histories. His presentation was very well received and prompted many excellent questions and discussions.

Plans were discussed for a May 21st "Louisiana Seafood Boil." Ken Wisdom, '57, and his wife, Joann, offered the use of their house for this event.

Everyone agreed that crawfish should be the main course, in quantity. Ken and Joann's pool should provide ample entertainment between helpings.

Special attendance honors go to Sheila McDonnell, '83, who traveled from Bay St. Louis, Mississippi, and special honors to Ralph Wilkey, '38, and his wife, Rosemary, who gave delightful and witty insight into St. Pat's celebrations in the '30s (late 30s).

Those in attendance were: Ferrill and Debbie Ford, '78; Robert and Sandy Mitchell, '61; Curt Killinger, '73; Mr. and Mrs. Bill Williams, '66; Paul and Martha Whetsell, '61; Ralph and Rosemary Wilkey, '38; Sheila McDonnell, '83; Ken and Joann Wisdom, '57; Wally and Lorraine Stopkey, '52; and Holt and Elaine Fastring, guests.

Ferrill E. Ford, '78



Alumni Section News continued

Chicago Section

The Chicago area section of MSM-UMR alumni has returned! For more than 20 years, this section has not been active, but on March 18, 1988, the Chicago area alumni met for a St. Pat's dinner at the Back Door Restaurant in the western suburbs of Chicago. The event was organized by Cheryl Gibbons Ibarra, '71, and 79 alumni and guests attended.

Following drinks (including green beer) and dinner, the group held an organizational meeting. Officers elected were: Cheryl Gibbons Ibarra, '71, president; Dan Arthur, '86, vice president; and Don McIntosh, '82, secretary/treasurer.

The section is planning a picnic in September. Interest was expressed for our group to attend a Cubs' game, and the possibility of having that activity is being investigated. Several alumni are making plans for a golf outing.

The alumni enjoyed a poster display

of the Chicago area class directory, and many alumni discovered "lost" classmates living nearby. Bob Saxer, '61, held a raffle for a 1988 St. Pat's sweatshirt, and Bill Rushton, '51, was the lucky winner. Door prizes were won by Bob Wilson, '62; Lea Anne Howell, '81; and Steve Dunkmann, '72.

Those in attendance at the Chicago area St. Pat's dinner were: Carolyn and Vernon Alexander, '69; Cheryl and Ed Alusow, '76; Joan, '84 and Dan Arthur, '86; Diane and Edwin Baker, '73; Anne and Jeff Baker, '66; Doretta and Wayne Balsman, '63; Jane and Bill Black, '72; Lori and Phil Bureman, '81; Steve Dunkmann, '72; Ron Fadler, '72; Fred Fass, '81; Jeanette and George Feyerabend, '45; Marken and Paul Gerhardt, '65; Connie and Jim Gilstrap, '67; Bill Henning, '61; Janice and Richard Harvey, '74; Lea Anne, '81, and Joe Howell, '81;

Cheryl, '71, and Jim Ibarra, '72; Tim Jedlicka, '85; Janice and Donald Jogerst, '68; Marikelen and Jim Johnson; Carol and Ralph Kramer, '66; Elizabeth and Brent Lents, '84; Don McIntosh, '82, and guest; Orville Meyer, '43; Pam and Michael Moran, '72; Liz and Bob Morrison, '71; Leslie Noland, '77; Mrs. Novak and Dion Novak, '85; Dayle and Joe Padberg, '72; Suzanne and Bill Rushton, '51; Linda and Bob Saxer, '61; and daughter Mary; Niaz Shaikh, '64; Carol and David Spencer, '69; Bob Swale, '85 and guest; William and Roberta Treasurer, '75; Bob Trivedi, '64; John Vento, '77; Stan Wadsworth, '71; Janet and Frank Watson, '60; Mrs. Wicker and Richard Wicker, '59; Mark Williams, '83; Marla Willman, '87; Bob Wilson, '62; Eileen and Larry Winters, '68; Frankye and Ken Woodruff, '58.

Cheryl Ibarra, '71
President



MINER SPORTS *Gene Green, Editor*

Lady Miners Softball Hopes for Strong Defense

First-year UMR softball coach Julie LeVeck hopes a solid defensive team yields positive results in 1988.

LeVeck, who is also assistant women's basketball coach, has stressed

defensive work and a hitting attack in hopes of improving the Lady Miner softball program. The squad suffered through a 9-16 season last year, but a new attitude is present on the team, LeVeck says.

"They have all worked very hard, and have hit the weights, worked on their hitting and bunting skills and formed a good pitching-catching combination," she said. "Things are shaping up pretty well."

Opening up their season in Pensacola, Fla. March 14-17, the Lady Miners have eight letterwinners returning. Projected starters for the team include Caroline Bredeman (SS), Lisa Burwell, (3B), Michelle Ditton (1B), Angie Honse (C), Lisa Korba (2B), Nancy Wehmeyer (CF), Teresa Dickenson (LF), and Nicki Westmoreland (RF). Pitchers will be Kristy Weber, Joann Stratman and Korba. Stratman will also battle for rightfield duty.

"If we have one main weakness, it is that many people are playing new positions this season," LeVeck said. "There is also a lack of depth, but that is something we will have to deal with. I hope the team gets more mentally and physically aggressive as the season goes along."



UMR's leading softball pitcher, Kristy Weber, has helped the Lady Miners jump off to their best start ever (20-8 at press time). Weber is among the MIAA leaders in wins and earned-run average.

Men's Tennis Begins Season With New Coach

Some new players and a new coach grace the Miner men's tennis team this season, as Don Stringfellow takes over the program.

Stringfellow, who also serves as assistant coach for the men's basketball team, has a pair of freshmen playing the one-two positions.

Brian Berkstresser will start the season number one, with freshman John Johnson next in line. Also on the team will be Mark Medley, Ed Suranunt, Karl Lewin and Alex Kott. The number one doubles team will be Berkstresser-Johnson, with Medley-Kott next and Lewin and senior Randy Behm rounding out the team.

"We've had a lot of improvement by everyone from the first day we went out to practice," Stringfellow said. "They are coming along pretty fast—faster than I thought they would."

UMR will play in the MIAA Meet April 22-23 at Lodge of the Four Seasons.

Local Talent Forms Nucleus of 1988 Men's Golf Team

UMR golf coach Bud Mercier didn't have to look too far to find the nucleus for this year's golf team. The young men were in his own back yard.

Four members of this year's team are from the Rolla area, an aspect Mercier attributes to the Ken Lanning Junior Tournaments over the years.

Area players for the Miners are sophomore Jeff Leonard (Rolla), Chris Boone (St. James), Todd Blanton (Sul-

livan) and Gary Branson (Owensville). The team's top player is Matt Dwyer, and all-stater from DeSmet High School.

Others on the squad are Alex Vahldick, Tim Litsch and Tiraton Namatra.

"This year's team shows some ability," Mercier said. "Northeast Missouri will again be the team to beat in

MIAA action, but we could be a threat if things materialize down the road."

The MIAA Meet will be held April 30-May 1 at Tan-Tar-A. The NCAA II Nationals will also be held there May 17-20.

"I'm looking forward to this season," Mercier said. "We have more depth than usual and a great deal of enthusiasm."

Miner Sports continued

Baseball Miners Feature Talented Returnees, Little Depth in 1988

Many of the names in the UMR 1988 baseball starting lineup will be familiar around the MIAA. The rest of the roster, however, is laden with newcomers.

The Miners, 15-9 in 1987, including a 7-5 second-place finish in the MIAA southern division, will not be a team blessed with proven depth this season.

Most of the team's "rookies" appear on the Miner pitching staff, a prospect first-year coach Gene Green knows will present a big challenge for the team.

"Our starting lineup is pretty solid, with some impressive talent ready to take the field," Green said. "But we have precious little proven depth after that level, and a very young pitching staff."

Returning on the mound for UMR will be senior righthander Butch Parmeley and sophomore righthander Glen Weible. Parmeley was 3-2 for UMR last season, posting the second-best E.R.A. on the staff. Weible logged a 2-1 record, with one shutout.

"After those two starters, our other six pitchers are all unproven first-year players who will have to adjust to collegiate action in a hurry," Green said. "That aspect of our team will probably dictate just how well we can do this season."

Top newcomers for UMR include lefthander Chris Silies and righthander Russ Bryant. Other pitchers are Gary Rubel, Jason Bandouveres, Scott Sassmann and Colin Daugherty.

Daily also had a solid sophomore season, pacing UMR with a .381 average, leading the team in hits, triples, stolen bases, and sacrifices.

Also returning will be catcher Greg Brummer, who starts his senior season after a .325 campaign in 1987.

Brummer takes over for four-year letterman John Viehmann, after playing shortstop for the Miners last year.

In the starting lineup, UMR returns first-team MIAA performers Bret Voypick and Dan Daily. Voypick returns with his aggressive play at third-base, following a 1987 season that featured a .364 average. As a sophomore he led the Miners in runs scored, in game-winning RBI's, and made only six errors in 85 chances, contributing a team-high 43 assists.

Men's Track Team Enjoys Team Records and Success

With only one senior on the team, UMR men's track coach Dewey Allgood may have expected a bit of rebuilding during the indoor season. Instead he saw his club set five team records and score more points than any Miner team ever in the MIAA meet.

"We have a great group of kids out, and they did a tremendous job," Allgood said. "I think this group will continue to get even better as the outdoor season gets into full tilt."

Setting UMR records during the indoor season were Jeff Balmer (1,000-yard run), Gary Gibbs (880), the

shuttle-hurdle relay team of Kurt Daniels, Pat Short, Todd Mantei and Robby Goller, the distance medley relay team of Balmer, Gibbs, Mike Noble and Tim Cross, and the 400 meter relay team of Short, Daniels, Brian Dalton and Lloyd Flowers.

Gibbs recorded the 13th best time in NCAA II in the 800, while Short logged the 19th best time nationally in the 60-yard high hurdles.

"We scored more points (26) in the MIAA meet than ever before," Allgood said. "That was probably the most satisfying part of the season."

Allgood also was impressed by Eric

Crumpecker, who finished third in the MIAA in the shot put.

And for the outdoor season?

"It looks promising," Allgood said. "Balmer is the lone senior, and I feel he has an excellent chance to qualify for nationals in the 1,500. And I feel Gibbs has the ability in the 800-meter run to make nationals."

Allgood looks for UMR to be strong in the middle distance and throwing events, as well as the hurdles.

The MIAA Meet is May 5-7 at Southeast Missouri, while the NCAA II Nationals will be held May 19-21 at Angelo State in San Angelo, Texas.

Miner Sports continued

New Women's Track Program Underway

For the first time in the school's history, UMR is funding a women's track and field program. Head coach Sarah Preston has started to build the team from the ground up, as four ladies participated in the indoor season.

"We had to start somewhere, and I'm happy with the small group that battled it during the indoor season," Preston said. "Hopefully there will be six additional runners and throwers for the outdoor season, so things are starting to look up."

For the Lady Miners during indoor action, Debbie Klaus, Chrissy Adkisson, Yolanda Luster and Angie Allphin competed. Klaus' top time was

2:26 in the 880-yard run (4th at the CMSU Meet), while Adkisson was ninth in the MIAA Meet with a time of 12:31 in the two-mile run. Luster recorded a time of 7.91 in the 60-yard run, while Allphin served as UMR's shot-put performer.

"If any alumni are aware of any student-athletes who may be interested in UMR's women's track program, I hope they will contact me," Preston said. "Since this is a new activity, we are in the building stage and many people are not aware that we offer this sport to women."

Preston can be reached at 314-341-4971 during regular office hours.

Despite Youth, UMR Swimmers Have Good Year

When considerations for youth, injury and other adversity are taken into account, it is hard not to marvel at the 1987-88 UMR swimming team.

"They surpassed my wildest expectations," said coach Mark Mullin. "I'm very pleased with our 6-3 dual meet record, and we lose only two seniors from this team."

The Miners culminated the season with a strong second-place finish at the Midwest Championships, and senior Steve Goodell was a standout. Battling back from an early season injury, Goodell paced the team with 45 points, as UMR nearly defeated host University of Indianapolis.

Kurt Koelling is the only other Miner senior, leaving Mullins with a

great deal to look forward to next season.

"Even though we did not qualify anyone for nationals, it was a great season," he said. "The standards were very high this year, and it made it really tough to qualify."

Mullins feels he is having the best recruiting season since he has been at UMR, giving him solid reason for optimism.

"Tim Streb (200 backstroke), Scott Sandvoss (400 IM-200 freestyle) and Joe Lundeen (50-100 freestyle) all have excellent chances of qualifying for nationals next season, as well as some of our relays," Mullin said. "With some help from some newcomers, we should be much improved next season."

Men's Basketball Ends Season With Four Wins

Sometimes ending things on a high note can mean a great deal for next season. That is what UMR head men's basketball coach Dale Martin is hoping happens with his team.

"Winning and playing well at the end of the season leaves the players returning with a positive feeling about the program and themselves," Martin said. "And sometimes that can carry over to the next season."

UMR ended the season 12-13 overall and 6-8 in the MIAA, winning the final four games of the year and finishing the conference season with more wins than any men's basketball squad during the 1980s.

Duane Huddleston, who finished the season with a 24.2 average, scored 17 points in his finale. The talented 6-5 guard from Decatur, Ill., ended his career second on the all-time Miner scoring list with 1,475 points, trailing only Curtis Gibson's 1,534 tallies from 1981-85.

"We had some problems this season, with injuries, close defeats and other things a team goes through during the course of the season, but I really thought the team showed its character by the way it played down the stretch," Martin said. "It would have been easy to let up a bit when we were 8-13, but they just tried even harder to end things on a positive note."

In addition to the graduating Huddleston, the Miners lose forward David Dean and guard Mark Givens. UMR will return double figure scorers Adrian Davis (12.2), and William McCauley (11.8), along with talented freshman forward Gary Miller and starting center Tim Hudwalker. Reserves returning include Greg Saltee, Chris Schneider, Ken Daggs, Steve Wands and Allen Griffey.

Miner Sports continued

Lady Miners Look To "Young Veterans" in '88

It was easy at times to overlook the positive points of the 1987-88 women's basketball season. Just ask head coach Mary Ortelee.

"At times it was one of the longest seasons I've ever been through because of all the injuries, but if I allow myself to step back a moment and properly reflect on things, there are many pluses," Ortelee said. "And the pluses all point to next season."

UMR finished the season 11-15 overall, 5-9 in the MIAA. While the record did not reflect what Ortelee had in mind for the team this season, some of the players received valuable playing experience.

Forced to play the entire season without leading scorer and rebounder Tanya Hough (red-shirted with a knee injury) and losing talented sophomore Jennifer Cordes for six games (stress fracture), the Lady Miners turned to a youthful mixture that often featured three freshmen and two sophomores in the starting lineup.

One of the freshmen paced the team in both scoring and rebounding, as 5-10 forward Cynthia Farrington burst onto the MIAA scene like a seasoned veteran. She averaged a team-high 14.6 points and 7.1 rebounds, while fellow freshman Casey Engstrom chipped in with some solid numbers in her unexpected role as starting center.

The 6-3 Paragould, Ark., native shot 60 percent from the field, averaged 9.6 points and 5.6 rebounds, while blocking 39 shots. Her progress, highlighted by a 27-point game at Missouri-St. Louis, was one of many pleasant surprises for Ortelee.

UMR Guard Duane Huddleston Named to NABC All-America Third Team

Duane Huddleston, star senior guard for UMR, has been named to the National Association of Basketball Coaches (NABC) All-America Team. Huddleston, who averaged 24.2 points for the Miners, and was one of the top three-point shooters in the United States, was named to the NABC Third Team.

Huddleston was the only MIAA performer to make the first, second or third teams, and joined St. Joseph's (Ind.) forward Stan Kappers as the only other player from the Midwest to be honored. During the 1987-88 season, Huddleston scored 606 points—best ever in a single season for UM-Rolla.

"I'm thrilled for Duane, as the NABC All-America team is quite an honor," said UMR head coach Dale Martin. "He not only had a fantastic season statistically, but he also was our undisputed team leader on the floor."

Huddleston connected on 52 percent of his three-point shots and made 79 percent of his free throws. His 606 points bested the previous mark of 595 set by Ken Stalling during the 1973-74 season.

"Only one other player has ever attained NABC All-American status at this school," noted UMR Athletic Director Billy Key. "And that was all-time leading scorer Curtis Gibson, who also was named to the third team in 1984-85. We are all proud of Duane's



Duane Huddleston

accomplishments and wish to thank him for all the contributions he has made to this program."

Huddleston, a three-time "Player-of-the-Week" selection in the MIAA this year, was earlier named to the conference first team. It was the second straight season he made the first-team group.

A native of Decatur, Ill., the 6-5 guard came to UMR with a sterling prep record and improved dramatically during the past two seasons.

Faculty Activities

Riordan to Head Affirmative Action at UMR

Dr. Catherine A. Riordan, associate professor of psychology at UMR, has been named assistant to the chancellor for affirmative action and equal opportunity.

"I am extremely pleased that Dr. Riordan has accepted this position," said UMR Chancellor Martin C. Jischke. "She will do an excellent job and I am confident that she will find this to be an interesting and rewarding opportunity."

Prior to Riordan's appointment, the affirmative action and equal opportunity coordination was handled by Catherine Jenks, director of the university relations, who retired in the summer of

1987. In the interim period, Lynn Waggoner, director of public affairs, has served as acting assistant to the chancellor in that capacity.

Riordan received a B.S. degree in social welfare and psychology from Eastern Michigan University in 1974. She received a Ph.D. degree in experimental social psychology from the State University of New York at Albany in 1979.

Riordan serves as a co-director of the Women-At-Work continuing education series at UMR. The series has been dealing with contemporary work and lifestyle issues since 1981.

Myers Named Member of Patent Committee

Dr. Donald D. Myers, '61, director of Research Services at UMR, has been named a member of the Advisory Committee for Patents and Trademarks (ACPAT), United States Department of Commerce, for 1988.

According to Myers, who also is a UMR associate professor of engineering management, the purpose of the committee is to advise the Patent and Trademark Office on a variety of policy matters involving domestic patent

issues and foreign patent and trademark issues.

"In addition, the committee will be responsible for the administration of the patent office and its office-wide automation program," Myers said.

Myers, who joined the UMR faculty in 1980, holds B.S. and M.S. degrees in mechanical engineering from UMR and M.B.A. and J.D. degrees from St. Louis University. He also has served as patent development officer for the University of Missouri.

French Appointed Director of International Programs

Eunice P. French has been named director, Center for International Programs and Studies (CIPAS) at UMR. She succeeds Dr. Bobby G. Wixson, now dean of the College of Sciences at Clemson University.

French has been associated with CIPAS, a program of UMR's Division of Continuing Education and Public

Service, in various capacities since 1975 and has been on the UMR staff for 20 years. She was CIPAS' assistant director from 1979-87.

French holds a B.A. degree in economics from UMR and is currently working toward an M.B.A. degree at Drury College.

Watson New Director of Mining Research Institute

Dr. John L. Watson, associate professor of metallurgical engineering at UMR-Rolla, has been named director of the Missouri Mining and Minerals Resource Research Institute at UMR.

Dr. David J. Barr, UMR professor of geological engineering, who previously held the position, was named chairman of geological engineering at UMR in August.

Watson joined the UMR faculty in 1981. He received a B.S. degree in metallurgy and mining at the University of Nottingham, England, in 1966, and received a Ph.D. degree in materials at the University of Bristol, England, in 1971.

Before coming to UMR, Watson served as a visiting professor at the South Dakota School of Mines in Rapid City, as a senior lecturer at the University of Otago, Dunedin, New Zealand, and as a lecturer at the Western Australia School of Mines in Kalgoorlie, Australia.

News and Publications Win Award of Excellence

The news and publications department (formerly office of public information) at UMR has received an Award of Excellence for UMR's 1987-88 Graduate Catalogue as part of the Council for the Advancement and Support of Education's District VI Awards Competition.

The award, which was in the publications category, was presented during the CASE District Conference Awards Luncheon on Jan. 19.

The catalogue was produced by Minnie Breuer, information specialist; Ernest Gutierrez, senior information specialist; and Martin Blank, assistant director.

Faculty Activities continued

Howe Named Adjunct Professor

Dr. Wallace B. Howe, associate director of the Missouri Department of Natural Resources' Division of Geology and Land Survey, has been appointed an adjunct professor of geology and geophysics in the School of Mines and Metallurgy at UMR. Dr. Howe will provide liaison between the Missouri Geological Survey and the UMR department.

Howe received his B.A. and M.A. degrees in geology at the University of Missouri-Columbia in 1947 and 1948, respectively. He received a Ph.D. degree in geology at the University of Kansas in 1954.

Howe joined the staff of the Missouri Geological Survey in 1951. He served in various capacities within that agency until his appointment as state geologist in 1971.

With the advent of state governmental reorganization in 1974, he became director of the Division of Geology and Land Survey, one of several operating divisions of the Missouri Department of Natural Resources, and was appointed associate director, Division of Geology and Land Survey, in 1986.

Jischke to Serve on NASULGC Commission

UMR Chancellor Martin C. Jischke has accepted an invitation from the National Association of State Universities and Land-Grant Colleges (NASULGC) to serve on its Commission on Education for the Engineering Professions—Class of 1990. In addition, he will continue to serve on its Committee on Federal Legislation.

According to Stanley O. Ikenberry, NASULGC chairman, Jischke's participation in these two groups will be a genuine service to the Association as "this is an important time in the history of our nation and our universities."

Bertnolli Elected Vice President of IEEE

Dr. Edward C. Bertnolli, director of UMR's Engineering Center on the University of Missouri-St. Louis campus, has been elected vice president for professional activities by the Assembly of the Institute of Electrical and Electronics Engineers (IEEE) for 1988. He also will hold a companion position as chairman of the United States Activities Board (USAB), and as a member of the IEEE Board of Directors and Executive Committee.

According to Bertnolli, who also is a UMR professor of electrical engineering, IEEE, which is headquartered in New York, is an international organization and is the largest technical professional society with about 285,000 members in about 130 countries.

"As vice president, I will be responsible for that institute's professional activities worldwide," Bertnolli said.

Bertnolli explained that the USAB pursues professional activities to enhance or modify state or national policies and practices that affect elec-



ED BERTNOLLI

trical and computer engineers in the U.S.

Bertnolli joined the UMR faculty in 1965. He holds B.S., M.S. and Ph.D. degrees in electrical engineering from Kansas State University. He also has been a member of the Kansas State University faculty.

Burst Appointed Adjunct Professor of Geology

Dr. John F. Burst, executive director of the Missouri IncuTech Foundation, has been appointed an adjunct professor of geology and geophysics in the School of Mines and Metallurgy at UMR.

Burst received his B.S. and M.S. degrees in ceramic engineering from UMR in 1943 and 1947, respectively. He received a Ph.D. degree in geology and clay mineralogy from the University of Missouri-Columbia in 1950. According to Burst, this was the first doctorate in clay mineralogy awarded in the United States.

As executive director of the Missouri IncuTech Foundation, Burst supervises a state-chartered innovation

center established for transferring technology from UMR to commercialization. He also oversees operational start-ups of high-tech companies, dealing with matters such as incorporation, leasing, accounting and legal services, as well as consultation services for staffing, marketing and financing.

Burst's publications on glauconite and the expulsion of water from clay minerals during sedimentary basin evolution are widely referenced. His expertise in these areas will contribute to the department of geology and geophysics thesis research committee, according to Dr. Richard Hagni, UMR chairman of geology and geophysics.

Editor's note: The following article about W.R. 'Pat' Broaddus, '55, is reprinted from the November 1987 issue of Rock Products magazine and was written by Mitchell Rukavina, associate editor. Pat was honored in Rock Products' annual issue honoring individuals making "outstanding contributions to the industry or to their operation." According to

Richard S. Huhta, editor, Pat's inclusion in the issue is unique: "This is the first time we have honored someone other than a producer, but Pat Broaddus is a remarkable person, well deserving of the honor." Pat is a vice president of the MSM-UMR Alumni Association and can be reached at AAI, P.O. Box 2545, Dalton, GA 30722.

Pat Broaddus, '55, Honored by Professional Journal

Some day even the smallest crushed stone plant in the United States will be at least partially automated, and when that day comes, much of the credit will belong to W.R. 'Pat' Broaddus.

Broaddus is the ideal champion of automation because of his plant testing and design expertise and rare skill in dealing with people. He is possibly the crushed stone industry's leading proponent of automation and possibly its reigning expert.

Broaddus, 53, a metallurgy and civil engineering graduate of the Missouri School of Mines, had very little help when he started to examine the purported advantages of automation to crushed stone producers. "After graduating from college I worked for Allis-Chalmers in Milwaukee and Atlanta for a number of years," he says, "but I always wanted to design and build better automated processing plants. So I went to work for the Dixie Lime and Stone Co. in Macon (Ga.) and then at Dalton (Ga.) Rock Products Co. where I gained additional experience in the stone crushing industry and evaluated automation possibilities."

As a quality control manager, Broaddus was given assignments that nobody else wanted to tackle. He helped increase a Dalton stone operation, designed for 750 tons per hour but only producing 500 tons per hour in 1969, to its peak production of 1500 tons per hour by 1982.

"We realized automation was the key to increased productivity and solving screening inefficiencies that increased recirculation load and recrushing of material that should have been conveyed to stockpiles," says Broaddus. He asked to be part of a national industry association's five-member task force to examine the expanding world of automation in crushed stone plants. The task force soon achieved committee status for the first national industry automation conference in



1984. Broaddus was named committee chairman for an overwhelmingly successful second automation conference held in Chattanooga, Tenn., in 1986, and was selected again to manage the October 1988 automation conference scheduled for Baltimore, Md.

Broaddus continues to work unselfishly with industry members, explaining how they can boost productivity at their operations through automation and simple changes in screening and crushing techniques. He has never asked for financial reimbursement for managing automation seminars and delivering papers at workshops and seminars throughout the country. Secretarial services, phone bills, and other expenses have come out of his own pocket.

"I am continually amazed by the crushed stone producers' eagerness to share information," says Broaddus. "It is encouraging that we are running into fewer unautomated crushed stone operations. The bottom line now seems to be concern over operating

costs, staying competitive, and maintaining quality control."

Broaddus always makes himself available to the industry to demonstrate how automation will enable stone producers to turn out a higher quality product with less deviation in specifications. "Plant managers are more willing to go into the plant and quarry to make changes," says Broaddus. "They also realize their equipment is only as good as the people who operate it. We are making progress."

"I see a great future for the aggregate industry in the years ahead from both a technical and marketing viewpoint," says Broaddus, who started his own consulting firm four years ago. "Very few stone producing areas are in a depressed market. Automation is making industry more glamorous to young people with computer and engineering skills."

Alumni Personals

1914

Bennet R. Thompson is retired and living at 601 W. San Mateo, Santa Fe, NM 87501.

Ella F. Dake, a Rolla resident for the past 70 years, died Feb. 5, 1988, at Rolla Manor Care Center. She was 101. She was the widow of the late Laurence Dake, who served as professor of geology at MSM from 1913 to 1934. She is survived by two daughters, six grandchildren and four great-grandchildren.

1925

Donald R. Baker, retired, is living at 1800 W. Smith St., Blue Springs, MO 64015.

1926

Morris and Beatrice Tyrrell, retired, are living at 2105 Howell Branch Road, #17B, Maitland, FL 32727.

1928

James G. Donaldson is retired from the U.S. Bureau of Mines and is living at 1116 E. 9th, Rolla, MO 65401.

1927

A report of the recent death of **Richard H. Knox** has been received from his granddaughter, Kathy Knox, Box 5107,

Midland, Texas 79704. Richard attended MSM from August 1923 to February 1925. He was self-employed and a resident of Midland, Texas.

Frank K. Seydler writes: "Betty and I are enjoying more than 20 years of retired life. Betty has nine sets of 'around the world' travelogues she presents in the Grosse Pointe, Mich. area. Yours truly is now conducting two dance bands which play at country clubs, yacht clubs and 'The Best of Kelly,' WXYZ television shows, but still thinks of the good old days, 1923-27, at Rolla. The best to all of our friends." The Seydlers' address is 1041 N. Oxford, Grosse Pointe Woods, MI 48236.

1929

Charles H. Dresbach writes: "Still follow the school's progress. I was saddened by fire losses at Triangle—the house which was my home at Rolla." Charles is a petroleum consultant and he and Mary live at 5 Puckett Road, Rogers, AR 72756 (also his business address).

Francis A. McCurdy writes: "I just had a call from **Arthur Kemp**, also '29, which made me think I should let you know where we now live. Virginia and I moved to Wichita, Kan., from the Rio Grande Valley of Texas Nov. 1, 1987. We now live in a retirement complex, The Maple Village. For the first time in our lives we live in an apartment. We like it, are both in good health and 80 years young. We moved to be close to our children, Mike McCurdy of Pittsburgh, Kan., and Mary Lunn of Braman, Okla. We hope to come to Homecoming this year. Our address is 10200 West Maple, Apt. B309, Wichita, KS 67209."



1987 Rollamo

1930

The alumni office has received a report of the death of **Edwin Theodore Harvey**, Vandalia, Mo. At MSM he was a member of Senior Council, Tau Beta Pi, Phi Kappa Phi and served as vice president of the Orton Society. He was graduated with first honors and received his B.S. degree in ceramic engineering. He was retired from Harbison-Walker Refractories Co. of Vandalia.

1931

Elmer J. Sperling, '31, '32, writes: "Would it be advantageous to change from 'University of Missouri-Rolla' to 'Missouri Institute of Technology?'" He is self-employed as a consulting civil engineer. His address is 212 Papin Ave., Webster Groves, MO 63119.

Alumni Personals



1987 Rollamo

1934

Oscar Merrell Duncan writes: "Our eldest son went to Rolla in '52-'53. His eldest daughter plans to enter UMR Ph.D. program this fall, making three generations of our family being educated there. My wife took some summer courses on campus and her brother got his degree there. Also, our son-in-law got his M.S. degree and taught at UMR. Sorta of a family school for us (to use an Ozark phrase)." Merrell is retired as chief chemist of Indiana Farm Bureau Refinery and he and Gladys live at 307 Audubon Drive, Mt. Vernon, IN 47620.

1937

Warren Lloyd Donnelly died Dec. 12, 1987, according to notice received by the alumni association. At MSM he was a member of Independents and Theta Tau. After graduating with a B.S. in mining engineering, Warren worked for several years with Alcoa Ore Co. of Rosiclare, Ill., and American Fluorspar Co., Salida, Colo. He spent most of his career with Union Carbide Corp. in

Indiana as manager of flame plating, vice president of materials systems division, and as general manager, coatings service. Warren retired about 1971. He is survived by his wife, who lives at 6465 E. El Paso, Mesa, AZ 85205.

Wilfred K. Rodman reports that he is now living at 344 Winter Drive, St. James, MO 65559. He is retired.

1938

According to a note from his wife, Mary B. Arnold, 4071 N.E. 16th Terrace, Fort Lauderdale, FL 33334, **Ralph J. Arnold** died in Ft. Lauderdale, Fla., where he had lived for the last 13 years. At MSM Ralph was a member of Phi Kappa Theta.

Allen D. Bliss writes: "Looking forward to my 50th commencement and homecoming this year and I plan to be there." Allen and Sue live at 4911 Galicia Way, Oceanside, CA 92056. Allen is retired from Alcoa.

Samuel Edward Johnson died Jan. 12, 1988, according to Mrs. S.E. Johnson, 3040 Lakeview Drive, Odessa, TX 79760. At MSM he was a member of Lambda Chi Alpha, the Officers Club, the track team, was treasurer and a representative on the Interfraternity Council, and was a student assistant in the chemistry department. Following graduation with a B.S. in chemical engineering, he went to work for Essex Refining Co., Essexville, Mich. He also worked for Aquatrol Inc., a consulting firm in Odessa, Texas, and for Hercules Inc., in their division of cellulose and protein.

1939

A.E. "Dusty" and Marjorie Rhodes write: "We hope to make the 50th Homecoming next year." The Rhodes live at 1505 Dartmouth NE, Albuquerque, NM 87106.

Max L. Yeater writes: "I'm professor emeritus, nuclear engineering and work half-time as executive officer of the Engineering School at Rensselaer Polytechnic Institute in addition to supervising three grad students doing theses in applications of artificial intelligence. The only EE work I do is around home (mine or our children's) but the EE background proved to be extraordinarily useful during long research and teaching careers which centered first on physics and, since 1960, on nuclear engineering." Max's current address is 1391 Valencia Road, Schenectady, NY 12309.

1940

Fraizer McVale Stewart died Jan. 3, 1988, according to a notice received by the alumni office. At MSM he was a member of the MSM Band, MSM Forum, AIME, Theta Tau, Blue Key, Phi Kappa Phi, Tau Beta Pi, Student Council, and was treasurer of Independents. He received his B.S. degree in mining engineering (geology option). Following graduation Fraizer worked for Stanolind Oil & Gas Co. then joined the U.S. Navy during World War II. He served on the U.S.S. Yorktown and was in the Navy's first school on aircraft detection radar at Pearl Harbor. He received eight battle stars, a bronze star

Alumni Personals

1940 continued

and a Presidential Unit Citation. Fraizer returned to Stanolind (now Amoco Production Co.) and later became vice president of a petroleum consulting firm in Tulsa. He then served as vice president of large banks in Chicago and New York City, becoming a recognized authority in petroleum finance. The Society of Petroleum Engineers appointed him Distinguished Lecturer for 1968-69. He toured the Middle East and advised oil ministers of what are now the OPEC countries. In 1971 he decided to devote more time to consulting and investments and served in that capacity until 1979 when he formed Raymac Oil Corp. (now Norfolk Petroleum Ltd.) and became affiliated with Nor-Quest Resources Ltd. At the time of his death Fraizer was chairman of the board of Norfolk Petroleum Ltd. and was a director of Norquest Resources Ltd. He is survived by his wife, Judith, P.O. Box X, New Smyrna Beach, FL 32070, daughter Sue Ciampa, Victor, N.Y., sister, Anne, and brothers, **T. James, '34**, 1955 Squires Court, Titusville, FL 32796, Morris and Walter.

the time, I was with the L.A. County planning with emphasis on population-growth problems; the other half I was with Beverly Foundations on nursing care for the elderly—a frightening new world to me. As a follow-up, I became an active member of a public spirited group for the Boys Club of Monterey Park in funding, planning and construction of a new gym and activity center. Bena and I are in good health and enjoying life. We want you and yours to do the same. And do something good for someone else. That brings more satisfaction than anything else you can do."

Robert Schoenthaler writes: "**Wayne Bennetsen, '41**, and wife visited us in Oklahoma City recently on their way to play golf in Arizona. **Wash Adams, '41**, and I are going to spend a few days at the Smithsonian in April. Retirement is great!" Robert and Sammy live at 2625 NW Grand Blvd., Oklahoma City, OK 73116.

1942

Vernon T. "Vern" McGhee writes: "Notwithstanding Frank's weather, the Class of '42 had a great Homecoming. Also, the two Vernon T. and Betty couples (Loesing and McGhee) had a nice visit." Vern is retired from Phillips Petroleum. His and Betty's address is 350 Robin Road, Bartlesville, OK 74006.

1946

Robert L. Mann writes: "I'm still going as strong as ever. My wife, Shirley, and I are still living in Sullivan, Mo. We are both active in church work, I.O.O.F. Lodge and Rebekah Lodge meetings and activities. Also, we are involved in senior citizens activities. We get around pretty well for our ages. We had 71st birthdays, both last February." Robert is a retired United Methodist minister. The Manns' mailing address is P.O. Box 395, Sullivan, MO 63080.

1941

Nathan Jaffe, 12814 Collins, North Hollywood, CA 91607, writes: "1987 was our first year of being really retired—retired from business but not from life—which really means a change in direction. It was a year of experimentation, travel within the U.S., seeing old friends, reading a lot, and making plans. For about two months, I interned in Coro Reinvest, a public affairs training course for older adults. Ten of us took courses in working with the public sector (i.e. local government, unions, foundations, trade associations, etc.). Half of



1987 Rollamo

Alumni Personals

1947

Ed Fogarty writes: "Played golf with **Herb 'Long Knock' Sturges, '40**, this past winter in Florida. He's tough—so's Marie (golf-wise, that is), so I paid my dues." Ed is retired and his address is 717 Nottingham Road, Wilmington, DE 19805.

Thomas R. Pierce writes: "Retired to farm and am doing what I do best—loafing. My address is Box 436-A, Route 8, Sparta, TN 38583."

1948

Gilbert S. Keeley writes: "Recently retired as manager of nuclear licensing for Texas Utilities Comanche Peak Nuclear Plant. Am residing, with Mary Jane, at 205 Willoughby Lane, Cary, NC 27513."



1987 Rollamo

1949

Notice has been received of the death of **Robert W. Heins, 740 W. Main, Watertown, WI 53094**. At MSM Robert was a student assistant in the mining engineering department. He was graduated with a B.S. in mining engineering in 1949, and received his M.S. in 1950. He worked for several years with Shell Oil Co. in Houston, Texas, served as a first lieutenant at Chanute Air Force Base, Illinois in 1952, then spent several more years with Shell in Texas. After receiving a Ph.D. from the University of Illinois in 1965, he became a professor of mining engineering at Texas A&M University. He was retired at the time of his death.

Walter S. Knecht writes: "I am currently employed as a business system analyst for the International Petrochemicals Division of Union Carbide Corp. in South Charleston, W. Va. During the past several years, one of the projects I have been working on has been the development of an export order entry system called ISIS (International Sales Information System.)" Walter encloses an article from Union Carbide's magazine which describes ISIS as a system which has revolutionized filling orders from 106 countries. "Customer service representatives enter orders by telex from affiliates overseas," the article explains. "The system automatically sends acknowledgements to customers by telex checks their credit histories, prepares invoice instructions, and books shipments with suppliers. It tells plants when their products have to be at the dock, and gets information on the order to independent freight forwarders, who handle all paperwork and banking transactions as necessary. It even checks with the chemicals and plastics business group's total order processing system—on product inventories if Union Carbide is to be the supplier. It later prints invoices and sends them to customers—by

telex or mail, as appropriate—and sends follow-up information to Carbide's accounts receivables group. The key to ISIS' power is a computer in South Charleston, W. Va. hooked to satellite terminals in Danbury. As information is entered through the terminals, it is instantly updated for all users." For details, Walter's current address is 5317 Westbrook Drive, Charleston, WV 25313.

The death of **George Bernard Zurheide**, in March of this year, has been reported to the alumni association. At MSM George was a member of ASME, served as a student assistant in geology and mechanical engineering and made the honor list several times. He received his B.S. degree in mechanical engineering. Following graduation he joined Pittsburgh Plate Glass Co. in Crystal City, Mo., then moved to company headquarters in Pittsburgh, Pa. after several years. He spent his entire career with the company and retired to Hilton Head Island, S.C. where he was living at the time of his death.

1950

Thomas A. Holmes, chairman, chief executive officer, and a member of the board of directors at Ingersoll-Rand, Greenwich, Conn., has been named a "Centennial Alumnus" of the National Association of State Universities and Land-Grant Colleges (NASULGC). He was one of 125 individuals, selected from a pool of more than 1,200 "Distinguished Alumni" nominees, listed in the NASULGC's Centennial Symposium publication "The 'Centennial Alumni' of America's State and Land-Grant Universities." The publication explains:

Alumni Personals

1950 continued

"Abraham Lincoln told a Springfield, Illinois, audience in 1852 that 'In this country one can scarcely be so poor but that, if he will, he can acquire sufficient education to get through the world respectably.' The alumni of America's state and land-grant universities prove that contention." Tom's address is 445 Round Hill Road, Greenwich, CT 06830.

John Preston McGowan died Feb. 23, 1988, according to a notice from **Cheryl Ibarra, '71**. At MSM John was secretary-treasurer for ASM and served as a student assistant in met. He received his B.S. degree in metallurgical engineering. During his career he had worked for Eagle-Picher Co., Owens-Illinois Glass Co., Continental Can Co. and was vice president and chief metallurgist for Chas. C. Kawin Co. He is survived by his wife, Edna McGowan, 1250 Lawnmeadow, Naperville, IL 60540, three children and six grandchildren.

Richard J. Stegemeier, president and chief operating officer of Unocal Corp., was presented the Distinguished Achievement Medal of the Geosciences and Earth Resources Advisory Council during Texas A&M's commencement ceremonies in December. Richard helped discover and develop one of the world's largest oil fields in Indonesia, has helped to expand Unocal's research capabilities, and has contributed to the development of two major energy alternatives—geothermal power and oil shale. His address is 4536 Cerro Vista Drive, Anaheim, CA 92807. This notice was sent to us by **Robert P. Schafer, '52, '53, '75**, Theta Kappa Phi brother, 4426 Mill Creek Road, Dallas, TX 75244.

Ray A. Warfield Jr. writes: "Retired from C.F.&I. Steel five years ago. Assist wife, Aileen, in making chocolates, fudges and brittles. Plan to attend graduation of our youngest, Melissa, from UMR in May." Ray lists himself as a partner in Nettie's Colorado Candies. The Warfield family lives at 3203 Baltimore Ave., Pueblo, CO 81008.

1951

Charles A. Beckman writes: "We left northern Minnesota (brrrr) for sunny Southern California. If any '51 geologists are traveling by, give us a call. We're right above the San Diego Airport." Charles is retired from USX Corp. He and Elizabeth live at 2225 Guy St., San Diego, CA 92103.

Notice of the death of **Melvin Philip Bolanovich** has been received by the alumni association. At MSM he was a member of Kappa Sigma and ASC. He received his B.S. degree in ceramic engineering. He lived in Clearwater, Fla.

Joseph H. "Joe" Senne, professor emeritus of civil engineering at UMR, **Richard L. Elgin, '74, '76**, P.E., and David Knowles, a professor of civil engineering at the University of Arkansas (all partners in Elgin, Knowles & Senne Inc., Surveying Consultants, 900 Pine, Rolla, MO 65401) have contributed a chapter entitled "Field Astronomy for Azimuth Determinations" for a new book, *The Surveying Handbook* (Eds. Russell C. Brinker and Roy Minnick, pub. by Van Nostrand Reinhold Co., New York). Joe's address is P.O. Box 643, Rolla, MO 65401. Dick Elgin can be reached at 900 Pine, Rolla, MO 65401.



1987 Rollamo

1952

Lyman F. Van Buskirk died of a heart attack on Nov. 22, 1987, according to a note from his wife, Vursa Van Buskirk, 1267 N. Wayne, Ridgecrest, CA 93555. At MSM Van was a member of Theta Kappa Phi, Band, the Miner Board, APO, ASME, Hammer Throwers, and played football. He received his B.S. degree in mechanical engineering. His entire career was spent at the U.S. Naval Weapons Center in China Lake, Calif. where he was awarded patents in the areas of mechanics, RF, optics and electronics. In 1979 he was presented the William B. McLean Award for "Outstanding Creativity Contributing to Naval Weaponry." His spare time was spent as a member of the SPEBSQA and playing with a Dixieland band. He also enjoyed camping, float fishing and "flying and crashing" model airplanes. He is survived by his wife and six children.

Alumni Personals



1987 Rollamo

1954

John G. Jolly died Jan. 23, 1988, according to a notice sent to the alumni association. At MSM John was a member of Theta Tau, ASCE, and Chi Epsilon. He received his B.S. degree in civil engineering. According to office records, John had worked for American Brake Shoe Co., Alcoa and Granco Steel Products during his career, but at the time of his death he was self employed—J. Jolly & Associates.

1955

Herman A. Ray, retired, writes: "Nothing new. Hanging tough." Herman's address is 511 Lawrence Ave., Boise, ID 83709.

1958

Thomas C. Metcalf Jr. writes: "I received recognition for 25 years of dedicated government service at Rock Island Arsenal. I am currently assigned as project engineer to design and build an artillery firing simulator for installation at Mainz Army Depot, Mainz, Federal Republic of Germany. This device will satisfactorily function test artillery recoil mechanisms after initial assembly or overhaul without the need for expending live ammunition or transporting an entire weapon system to a distant firing range." Thomas's current address is 130 W. 2nd Ave., Milan, IL 61264.

1960

R.W. "Hank" Hankinson, '60, 62, has been named manager of the data processing controllers division of Phillips 66 Natural Gas Co. Hank had been manager of technical systems for Phillips corporate engineering. He joined

Phillips in 1967 after earning a doctorate in chemical engineering from Iowa State University. His address is 701 SE Sooner Park Drive, Bartlesville, OK 74006.

1961

Ron Prothero writes: "I recently was presented the Silver Beaver award by the Boy Scouts of America. This is the highest award given by the Boy Scouts for volunteers working at the local council level. In addition to boy scouting, I am currently active in Girl Scouts as a troop leader and a trainer." Ron is supervisor of maintenance for Memphis City Schools, Memphis, Tenn. He and Sara Jane live at 1074 Woodbury, Memphis, TN 38111.

Carl P. Rodolph, P.E., writes: "I have been named vice president, Albuquerque office, Greiner Engineering Inc. I will head up the New Mexico operations for Greiner's Rocky Mountain region." Carl's current address is Star Route, Box 1290, Corrales NM 87048.

1962

The death of **Raymond Anthony Mais**, in February, 1988, has been reported to the alumni association. At MSM Raymond was an Independent, a member of Prospectors and the Newman Club. He received his B.S. degree in electrical engineering. He spent his career with Century Electric Co./Gould Inc. in several locations throughout the country as an engineer and sales engineer. At the time of his death, he was retired and living in Aurora, Mo.

Alumni Personals

1962 continued

Piyush S. Parikh writes: "Enjoying the fruits of a good education at MSM. Wife, Suvarna, daughter Sapna, 11, and son, Sagar, 6, all have become naturalized U.S. citizens. Looking forward to a visit to the Mid-west in the summer of 1988. Good luck to MSM faculty and students. Keep in touch." Piyush is executive vice president and a principal of Intercept Communication Products of Paterson, N.J. He and his family live at 5 Ruth Court, Morganville, NJ 07751.

1963

J. Lisle Reed, '63, '64, '66, is currently serving as Science Advisor to the Secretary, Department of the Interior. He joined the Department of the Interior in 1983, and has served also as Deputy Under Secretary. He entered government service in 1970 and served in several resource management posts including Director of the Office of Oil and Gas in both the Federal Energy Administration and the Department of Energy. His address is 2701 Lorcum Lane, Arlington, VA 22207.

1964

Keith E. Bailey is this year's recipient of the Outstanding Engineer in Management Award of the Tulsa Chapter of the Oklahoma Society of Professional Engineers. Keith is executive vice president in charge of finance and administration at the Williams Companies in Tulsa. His current address is 4337 E. 74th Place, Tulsa, OK 74136.

Gary E. Boyer has been named vice president and division manager, Southeast Missouri Mining and Milling Division, of the Doe Run Co. Gary has held several management positions with Homestake Mining Co. of San Francisco, serving as senior adviser to the executive vice president for the last four years. Homestake is part owner of Doe Run. His responsibilities will include supervision of Doe Run's six southeast Missouri lead mines and four mills.

1966

Laurence T. Bliss died Sept. 19, 1987, according to a notice from his wife, Mrs. Anita Bliss, 205 Shelton Beach Road, #174, Saraland, AL 36571. At MSM-UMR Laurence was a member of Canterbury Club, the ROTC Student Officers' Association and made the honor list several times. He earned his B.S. degree in civil engineering. Following graduation he became a member of the U.S.

Army Corps of Engineers, serving overseas at least three times. He had been living in Alabama for the past two years.

H. Dennis Haubein has been promoted to vice president of engineering with A.B. Chance Co. of Centralia, Mo. His previous position was director of manufacturing services for the company. Dennis has been with Chance for the past twenty years. His address is Route 4, Box 254, Centralia, MO 65240.

Kenneth M. Ragsdell, '66, '67, has announced that he will resign Aug. 31 from his position as chairman of the University of Missouri-Columbia's mechanical and aerospace engineering department. He plans to stay at UMC, however, spending more time on research and teaching. He also is director of the Design Productivity Center and holds a research chair as a Huber O. Croft Research Professor. Kenneth lives at Route 6, Box 272, Columbia, MO 65202.



1987 Rollamo

Alumni Personals

1967

According to his wife, Sharon Kamman, 11946 Baresford Drive, Florissant, MO 63033, **James Harry Kamman** died as a result of brain tumors July 28, 1987. At UMR he was vice president of Tau Beta Pi, a member of Phi Eta Sigma, Glee Club, Independents, Prospectors and Tech Club, was a recipient of a Curator's Award, was on the honor list several semesters, and graduated with first honors. He received both B.S. and M.S. (1971) degrees in mechanical engineering from the University. Jim had been branch chief, propulsion and thermodynamics, with McDonnell Aircraft Co. since 1985. He joined the company in 1967. He is survived by his wife, Sharon, daughter, Stacy, and son, Christopher.

John and Dianne Lauletta and family will be moving to Houston in June 1988. Houston will be the new headquarters of Exploration Logging (EXLOG), a division of Baker Hughes Inc. John is president and chief executive officer of EXLOG. The Lalettas' current address is 9705 Mira Del Rio Drive, Sacramento, CA 95827.

William D. Webb has been named manager of Dames & Moore's San Diego office, 820 Fifth Ave., San Diego, CA 92101. He is a partner in the firm, and has 20 years of experience in consulting engineering. Dames and Moore was recently expanded; it now includes geotechnical, design, and environmental services. William's most recent position was manager of the West Germany office, and he has been manager of the firm's offices in Phoenix, Ariz., and Jakarta, Indonesia.



1987 Rollamo

1968

Michael A. Nawrocki, P.E., writes: "I am pleased to announce the formation of my own firm providing consulting services in hydrogeology, engineering, pollution control and environmental compliance—MANE, P.O. Box 2743, Harrisburg, PA 17105, phone (717) 238-4902." Michaels' home address is 1305 Upton Drive, Harrisburg, PA 17110.

Jerome "Jerry" Zimmer has been elected to the Board of Directors of Boatmen's Bank of Cape Girardeau, Mo. Jerry is president and general manager of Zimmer Broadcasting Co. Inc., which includes KEZS-FM and KZIM-AM in Cape Girardeau, and KWOC-FM and AM in Poplar Bluff, Mo. He also shares ownership in Long Distance Discount of Missouri and Iowa and BeepTel of Cape Girardeau. His address is 36 Schomhoff, Cape Girardeau, MO 63701. He and Mary have three children.

1969

Ben E. Divin has been named superintendent of polymer operations at the Amoco Chemical Co. plant at Chocolate Bayou, Texas. He joined Amoco in 1985 when Amoco purchased the Cedar Bayou polypropylene plant from another major chemical company, where he was the operations supervisor. Ben has worked in Chicago at Amoco's headquarters since 1986 and has been involved in the manufacturing and planning of polymers production. Ben and Carol Ann have two children.

Alumni Personals

1969 continued

John A. Ebeling writes: "I am now working on the Advanced Apache development program, McDonnell Douglas Helicopter Co., as project manager for operations. My wife, Marilyn, son, Matthew, daughter, Katie, and I recently moved to Red Mountain Ranch overlooking the Phoenix valley, leaving the smog and congestion of L.A. behind us." The Ebelings' address is 3938 N. Sapphire, Mesa, AZ 85205.



Whitney Bruce, three days old.

Robert S., '69, '70, and Betsey Bruce are pleased to announce the birth of their daughter, Whitney Elizabeth Anne, Jan. 24, 1988 (7lbs., 13 oz.). Bob is regional vice president of INTRAV, Clayton, Mo. Betsey is political editor and weekend anchor for KMOV-TV. The Bruces' address is 15 Carrswold, St. Louis, MO 63105.

1970

William D. Alexander writes: "After a two-year teaching leave in the Netherlands we have returned to the North Kansas City School District where I am teaching at New Mark Middle School. Janet and I live at 8238 N. Virginia, Kansas City, MO 64118."

Max Ethridge recently was named chief of the National Geodetic Survey, a division of Charting and Geodetic Services, National Ocean Service (NOS) within the National Oceanic and Atmospheric Administration (NOAA). Max currently supervises analysis and reduction of GEOSAT altimetry data, crustal motion studies, standards and specifications for the new Global Positioning System, automation of the geodetic data base for North American Datum of 1983, and completion of the North American Vertical Datum of 1988. He joined the NOAA Corps in 1970. His address is 17504 Ira Court, Derwood, MD 20855.

Donald G. Neumeyer writes: "I was selected as Engineer of the Year for the Southwest Chapter of the Wisconsin Society of Professional Engineers. I am also the chairman of the MATH COUNTS program." Don is manager of market development with Wisconsin Power and Light. His address is 509 Westmorland Blvd., Madison, WI 53711.

D. Jay Frankenfield, '70, '71, writes: "After 16 years in manufacturing management with Procter and Gamble and PepsiCo, I've joined Schuler Ducote as a principal. We are an Atlanta-based consulting firm specializing in operations and engineering management for



D. JAY FRANKENFIELD

manufacturing companies. Our business address is 6855 Jimmy Carter Blvd., Suite 2560, Norcross, GA 30071. My wife, Anne, and I are now living at 11200 Springs Lane, #F, Norcross, GA 30092."

J. Tim Shanholtzer was the subject of a feature article in the Springfield News-Leader. Tim is the City of Springfield's inspector of elevators and the article gives the details of his job. There are 475 elevators in Springfield (informal checks every six months, formal check-up every year and detailed inspection every five years). There are also 20 escalators, numerous dumbwaiters and temporary personnel hoists in buildings under construction that come under his jurisdiction. The elevators range from turn-of-the-century models to the most modern electronically run versions and Tim must be knowledgeable about them all. Tim's address is 2355 E. Kirkwood, Springfield, MO 65804.

Alumni Personals

1971

James R. Schneider writes: "Jim Schneider recently moved to Denver along with wife, Jane, and children, Dan, 8, and Marianne, 5. Jim is still with CH₂M Hill Inc. and transferred to Denver to serve as senior geotechnical engineer for the firm's Rocky Mountain region. Recent projects include a soil-bentonite cutoff wall, solid and hazardous waste landfills, and an interstate freeway bridge over the Colorado River." The Schneiders' new address is 6686 E. Jamison Ave., Englewood, CO 80112.

David N. Torgeson writes: "I have been appointed city engineer of the City of Mercer Island, Washington. Rosarita Puma and Chet Huntley, household felines, now expect finer culinary treats." David's address is 3204-216th Court S.E., Issaquah, WA 98027.

Stephen L. Turner writes: "I am the maintenance engineer for Commonwealth Edison's generating station at Kincaid, Ill. Georgann and I have three teenage daughters, Chris, Courtney and Cindy, and we live at 600 S. Clay, Taylorville, IL 62568."

1972

Alan W. Carson writes: "In December '86 Nancy and I adopted two boys, Kevin, 5, and Russell, 8. Then on April 17, 1987, Laura was born—the third family addition within five months. Both of us are enjoying the kids. I still try to play golf and have started the boys playing with cut down clubs. I am supervisor, structural group, facilities engineering, with Olin Corp. of Independence, Mo. Our home address is 3721 Chapel Drive, Lee's Summit, MO 64064."

Robert L. Holliday, assistant professor of mathematics and computer studies at Lake Forest College, was recently granted tenure and promoted to associate professor. The promotion will take effect this fall. Robert has taught at Lake Forest College since 1982. He also has been on the faculties of Southern Illinois University and the University of Maryland. He is the coauthor of two published textbooks and has a third in preparation. He received the William L. Dunn teaching award in 1986. His address is #9 Faculty Circle, Lake Forest College, Lake Forest, IL 60045.

Michael L. Holt, '72, '74, writes: "Maureen and I were blessed by the birth of our son, Matthew David, on Dec. 8, 1987. He weighed 8 lbs., 11½ oz. At three months of age, he has found his voice and is ready to take on the world!" Michael is chief metallurgist and quality control manager with Frog Switch and Manufacturing Co. The Holts live at 2338 N. Second St., Harrisburg, PA 17110.

Stephen J. Rodick, P.E., recently was named assistant department manager, transmission and distribution department of Burns and McDonnell in Kansas City. He also will continue to serve as chief of the transmission section. His address is 437 W. 66 Terrace, Kansas City, MO 64113.

Hans K. Schmoldt, '72, '78, writes: "After 20 years I have figured out a way to go to Mexico, skin-dive on sunken shipwrecks in the Caribbean in February, and charge it as a business trip. I will be attaching sacrificial anodes to underwater cannons and anchors in an underwater museum to protect them from

corrosion. It's 45 minutes south of Cancun." Hans is the owner of Anode Supply Co. His address is 239 W. Fallen Rock Road, Grand Junction, CO 81503.

1973

Larry G. '73, '76, and Mary Anne Bergner write: "We have moved to our new address at 12902 Topping Way Drive, St. Louis, MO 63131. We are the proud parents of Andy, Nancy, Stephen and Suzanne. Larry is manager of construction at Anheuser-Busch."



Catherine Killinger, one month old

Curt, '73, '80, and Marybeth Killinger are pleased to announce the birth of their first child, Catherine Elizabeth, on Feb. 22, 1988. Curt is an exploration planning coordinator with Texaco in New Orleans, La. The Killingers' address is 836 Wilshire, Metairie, LA 70005. Curt is also an MSM-UMR Alumni Association director.

Alumni Personals

1973 continued

Steven P. Busch has been named a company vice president (engineering) by the Board of Directors of AmerEco Environmental Services Inc. of Kingsville, Mo. Steve began working for AmerEco in 1987 as the company's permits and regulatory affairs director. He is a registered professional engineer in Missouri and Nevada. His address is 1036 Wright, Pleasant Hill, MO 64080. His responsibilities will include regulatory compliance, environmental permitting, engineering and design, process development and management of AmerEco's new resource recovery/waste management facility.

Jack E. Gonzenbach writes: "My wife, Patrica, died last May ('87) after a long battle with cancer. My daughters, Cathie, 12, and Laura, 8, and I are still living at 2116 Timberline, Blue Springs, MO 64015. I am general manager for the train inspection systems division at Harmon Electronics."

Stewart A. "Stew" Scott writes: "I began my own residential construction company in 1985. Currently building homes in eastern Jackson County, Mo. We recently began bidding small commercial work in the same area. I was appointed to the planning commission of Blue Springs, Mo. in 1988. We have two children, Jamie, 8½, and Nathan, 3½. Our address is 1508 Weatherstone Court, Blue Springs, MO 64015."

John L. Stein writes: "I was recently named a member of the board of directors of Container Recovery Corp., one of the nation's largest recyclers of aluminum cans and glass bottles. I also serve on the board of the Electricity Consumer Resource Council." John is director, environmental engineering and site services, with Anheuser Busch Companies Inc. His address is 626 Forest Leaf Drive, Ballwin, MO 63011.



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1974

John J. Blase writes: "I am manager of the system control center for Iowa Electric Light and Power Co., Cedar Rapids, Iowa. I am married and have two children." John's address is 4588 Jonathan Lane NW, Cedar Rapids, IA 52405.

Joseph A. Cesare writes: "In January 1987 I opened my own practice specializing in geotechnical engineering. My firm's work is primarily in the area of geotechnical design; we are currently working on local site investigations, earth dams and landfills. We are also actively involved in geotechnical forensics and failure analysis." Joseph's address is 5779 E. Caley Drive, Englewood, CO 80110. His firm (he's president) is Joseph A. Cesare & Assoc. Inc., 6404 S. Quebec Street, Englewood, CO 80111.

Dennis R. Meier, '74, '79, '79, writes: "Valerie, our four boys and I are still happily located in Pittsburg, Kan. I formed Triad Mining Consultants two years ago to service the coal mining companies in the three-state area. The work is great but the state bureaucracy can drive you 'batty.'" The Meiers live at 1706 S. Olive, Pittsburg, KS 66762.

Richard L. Elgin, '74, '76, writes: "Joe Senne, '51, professor emeritus of civil engineering at UMR, and I, along with our other partner, David Knowles, a professor of civil engineering at the University of Arkansas, have contributed a chapter entitled 'Field Astronomy for Azimuth Determinations' for a new book, *The Surveying Handbook*, edited by Russell C. Brinker and Roy Minnick, and published by Van Nostrand Reinhold Co., New York." Dick and Joe are partners in Elgin, Knowles & Senne Inc., Surveying Consultants, 900 Pine, Rolla, MO 65401. Dick can be reached at his business address. Joe's address is P.O. Box 643, Rolla, MO 65401.

Alumni Personals

1974 continued



FRANK R. O'BRIEN

Frank R. O'Brien has been selected vice president of Christy Refractories Co. in St. Louis. He will retain the title of marketing manager. Frank has been with the company since 1977. His address is 1 Farm and Country Court, Florissant, MO 63033.

1975

Mark D. Algaier has been named research and development director at Hillyard Chemical Co. His new responsibilities will include overseeing all activity of research and product development, plus laboratory functions. Mark joined Hillyard in 1979 and was promoted to senior research chemist in 1982. His present address is 4009 Haverrill, St. Joseph, MO 64506.

David E. Prudic writes: "Still working, as a groundwater hydrologist, for U.S.G.S. We love it here in Carson City! Our girls, Katy and Sara, are 12 and 8, respectively. Barb is now going to school to get her teaching certificate! Our home address is 1008 Pioche, Carson City, NV 89701."

Kevin C. Skibiski, '75, '76, has been named 1988 Young Engineer of the Year for the Ozark Chapter of the Missouri Society of Professional Engineers. Kevin is a project engineer and structural department supervisor for Moore & Wolf-inbarger Engineers-Surveyors Inc., Springfield, Mo. He joins eleven other chapter nominees across the state as a contender for the 1988 Missouri Young Engineer Award, which was established to recognize young engineers for their engineering achievements and organizational activities on both community and professional levels. Kevin's address is Route 5, Box 17, Ozark, MO 65721. He is the immediate past president of the Springfield Chapter of the UMR Alumni Association.

1976

Randal A. Atkeisson writes: "I am a principal engineer working for Sperry Satellite Systems, a division of Honeywell. My wife, Liz, our two children, Rachel, 5, and Rustin, 1½, and I live at 15016 N. 24 Ave., Phoenix, AZ 85023."

Donald J. Chronister, '76, '80, writes: "Nancy, the boys, and I are back in St. Louis. I'm back in material and process development at McDonnell Douglas Aircraft working with high temperature titanium alloys and composites." Don's address is 15462 Duxbury Way, Chesterfield, MO 63017.

Fay S. (Schubert) and Stephen G. Eckert, both '76, write: "On Jan. 17, 1988, our second son, Andrew David, was born. He's joined his older brother, Joshua, in keeping mom busy day and night. Steve is still with Dow Corning, currently working as site construction superintendent. We're still living up on Kings Ridge Road, Route 1, Box 86A, Carrollton, KY 41008."

Kim C. (Coleman) and Ross D. Livengood, '77, write: "Kim is a full-time mom, part-time software consultant and now a software instructor teaching DOS and dBase III classes. Ross is supervisor of software at Vitek—McDonnell Douglas. Ross and Kim are active at church, at the neighborhood grade school and they stay busy with Daniel, 5, and Rachel, 2." The Livengoods' address is 1214 Rivoli, Manchester, MO 63011.

William E. McKee, '76, '78, 5856 Chrisbrook Drive, St. Louis, MO 63128, reports that he is, in fact, "alive, well, and single."

Linda Riley and Craig Bernstein, '78, write: "Craig reports: Ford said relocate or else. I chose the 'or else.' Am now looking for a new career in K.C. Suggestions welcome!" Linda is employed by Kansas City Power and Light. Their address is 11910 W. 64th Terrace, Shawnee, KS 66216.

Alumni Personals

1976 continued

Gene L. Rovak has joined JonesMayer Inc. as a group leader for commercial/public works projects. His address is 766 Gascogne, St. Louis, MO 63141.

David B. Smith writes: "Past employers have consisted of McDonnell Douglas, Emerson Electric and numerous small engineering aircraft Ground Support Equipment (GSE) consulting firms. Presently, I am employed as a senior development engineer for F.G.A. Inc. This company has a contract with the Army Aviation Systems Command in St. Louis. In this capacity, I serve as a consultant in all phases of design, development and testing of avionics GSE. I am additionally a captain in the Missouri Air National Guard and serve as a systems engineering officer. I have 16 years credited to the Guard. I am married and have two children, Vincent, 11, and Kristine, 4." The Smiths live at 14512 Appalachian Trail, Chesterfield, MO 63017.

Victoria (Headrick) Sweetser writes: "Dave and I now have two children: Kristy, 5, and John, 18-months. I am still a design engineer with Hewlett Packard. The products I have helped design are HP 3456 voltmeter, HP 33421 DA & C unit, and HP 3458 multimeter." Victoria and family live at 8135 Turman Court, Ft. Collins, CO 80525.

1977

Debra Brzuchalski has been promoted to senior engineer, manufacturing, plastics and polymers division, with Tennessee Eastman Co., a division of Eastman Kodak. Her address is 424 Oakmont Drive, Kingsport, TN 37663.

Ross D. and Kim C. (Coleman, '76) Livengood write: "Kim is a full-time mom, part-time software consultant and now a software instructor teaching DOS and dBase III classes. Ross is supervisor of software at Vitek—McDonnell Douglas. Ross and Kim are active at church, at the neighborhood grade school and they stay busy with Daniel, 5, and Rachel, 2." The Livengoods' address is 1214 Rivoli, Manchester, MO 63011.

1978

Larry Abrams writes: "I am Arco Oil and Gas production supervisor in Longview, Texas. Jane and I and our 8-year-old son, Jad, have lived in Longview for the past five years. We look forward to sending our budding scientist to UMR—Class of 2002. Hello to Darryl and Kathy, Alan, Martha (Venezuela), Peggy and Dave, Ann and Sandy, and Clayton and Peter." Larry's address is 102 Apple St., Longview, TX 75605.

Craig Bernstein, '78, '80, and Linda Riley, '76, write: "Ford said relocate or else! Craig chose the 'or else.' Am now looking for a new career in K.C. Suggestions welcome!" Linda is employed by Kansas City Power and Light. Their address is 11910 W. 64th Terrace, Shawnee, KS 66216. *Editor's note: Craig has B.S. degrees in both management and mining.*

Alan Davis, 100 Roelker Road, Wright City, MO 63390, writes: "In 1986 I started ADD Truss Co. Inc. upon leaving the oil patch. My wife, Jocelyn, and I have two children, Rachel, 5, and Tyler, 3. I would like to locate or hear from **Greg, '77, '80 and/or Lou Frank.**"

Kenneth S. Fleck, '78, '83, writes: "Nothing has changed since last time—we are both still gainfully employed, but things don't change quickly here in Price." Ken is a geologist with Beaver Creek Coal Co. His and Michelle's address is 205 N. Carbon Ave., Price, UT 84501.

Timothy F. McClain, a chemical engineer, has been made responsible for dope filtration, dope department, of the TEC Filter Products Division of Eastman Kodak. He joined Eastman's Kodak's Fiber Division as a chemical engineer and served in the Clean Environment Program before being assigned to the Industrial Relations division as a personnel representative. His address is 3540 McIntosh Drive, Kingsport, TN 37663.

Mark S. Miller, a reliability engineer with Dresser Industries, warns alumni: "Stay the hell out of real estate investments." His address is 2207 Waterway Bend, Austin, TX 78728.



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Alumni Personals

1978 continued

Greg A. "Trog" Melton writes: "Debbie, our two sons, Corey, 4, and Zachary, 1, and I have moved to a new home at Route 4, Box 693, Benton, AR 72015. I am now employed as an inspection engineer with the Surface Mining and Reclamation Division of the Arkansas Department of Pollution Control and Ecology in Little Rock."

Judith E. (Roper) Boone reports that she is currently working as an area engineer in ARCO's south central district in Midland, Texas. Her address is 2701 Maranatha, Midland, TX 79707.

Alan H. Brook writes: "I have just been transferred to Ft. Wayne, Ind. as a staff design engineer for General Electric to support manufacturing of jet engine controls. The Lord blessed my family, Amy, 5, and Jannie, 3, with another addition April 1987—Katie. My new address is 1610 Coronado Court, Ft. Wayne, IN 46845."

Michael D. Stock writes: "Mike has worked for the Kansas Department of Transportation for eight years and is working in the design department in consulting services. Mike and his wife, Regina, have three children, Chris, 8, Jennifer, 4, and Lisa, 2½. The Stocks' address is 535 N.E. Edgewood, Topeka, KS 66617."

1979

Philip R. Bissey writes: "Sharon (Vanderwal, '81) and I are busy watching our 15-month-old daughter, Jennifer, working, and generally enjoying life in the Houston area. Sharon is a programmer analyst for Shell Oil Co. and I'm a sales engineer for the Energy Services Group of Cooper Industries. Our address is 2930 Green Fields, Drive, Sugar Land, TX 77479."

Robert E. Hodgson, a senior electrical engineer with Manville Corp., Toledo, Ohio, has moved to 436 Sycamore Lane, Waterville, OH 43566.

Robert M. Schisla has been promoted to senior engineer, manufacturing, with Tennessee Eastman Co., a division of Eastman Kodak. His address is 4815 Lake Park Court, Kingsport, TN 37664.

1980

George R. Dickinson writes: "Still working as project manufacturing engineer for Tracor Aerospace in Austin, Texas." George's address is 1005 Cresswell, Pflugerville, TX 78660.

Thomas A. Dittmaier writes: "Married Kathy in August and moved into our new home at 2607 Morningside Drive, Blue Springs, MO 64015, shortly thereafter." Thomas is project manager with Burns & McDonnell Engineering Co. in Kansas City.

Tina (Gouty, '80, '83) and Jack Garner had a baby girl, Ashley Nicole, on Feb. 24, 1988, according to **Kim Hofstetter, '83**. Ashley weighed 7 lbs. 11 oz. The Garners live at 3701 NW 51st Place, Oklahoma City, OK 73112.

Timothy L. Hildenbrand writes: "Sandra and I were blessed with a lovely baby girl, Tara Kay, last August. I've seen GE grads **Jim Colliton, '78**, **Deb (Dorsett) Foy, '80**, **Neil DeShazo, '80**, **Linda (Madonna) Jacobs, '80**, **John Whitworth, '81**, and **Kristy (Defenbaugh) Daily, '80**, lately and all are alive and doing super!" Tim is a senior geological engineer, exploration and production, with Tenneco Oil. The Hildenbrands' address is 15010 Lantern Creek Lane, Houston, TX 77068.



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Alumni Personals

1980 continued

Scott C. Wehner writes: "Married Traci G. Beaty of Lee's Summit, Mo. in September '85. Have a son, Cole, age 14 months, and another on the way (July '88). We can be reached at 2115 N. Cielo, Hobbs, NM 88240. Presently residing in the 'Land of Disenchantment,' 300 miles from water, three feet from hell. Hoping Texaco will move us to Tulsa soon." Scott is a district reservoir engineer, CO₂ Group, with Texaco USA.



CHARLES R. "CHUCK" JARRETT

Charles R. "Chuck" Jarrett has been named supervisor, tool manufacturing and machine repair, at the Timken Company's Gambrinus Bearing Plant. Chuck has been with Timken since 1980 and has held the positions of associate engineer, design engineer, senior plant process engineer and senior process engineer. His address is 5944 Daisy St. NE, Louisville, OH 44641.

1981

Sharon (Vanderwal) and Philip R. Bisey, '79, write: "We are busy watching our 15-month-old daughter, Jennifer, working, and generally enjoying life in the Houston area. Sharon is a programmer analyst for Shell Oil Co. and Philip is a sales engineer for the Energy Services Group of Cooper Industries. Our address is 2930 Green Fields Drive, Sugar Land, TX 77479."

Bruce J. Colborne writes: "Janet and I are the proud parents of a baby girl, Janelle Marie, born Dec. 4, 1987, in Houston, Texas. Our address is 13775 Greywood, Sugar Land, TX 77478." Bruce is a sales engineer with Trane Co.

David M. Gresko, P.E., writes: "I recently accepted a position as a senior project engineer with ARCO Chemical Co. in Channelview, Texas. Prior to moving to the Houston area, I received my M.B.A. from Southern Methodist University emphasizing finance and international operations. I also became a registered P.E. in Texas. Lisa and I are busy settling into our new home and adjusting to the Gulf Coast climate. Our new address is 2043 Lake Hills Drive, Kingwood, TX 77339. My home phone is 713-359-1757 and my office phone is 713-457-4514."

Douglas R. Grounds writes: "I'm employed by Kerr McGee Coal Corp. at the Galatia Mine as a mine manager. Tina and I have two girls, Lauren, 4, and Ashton, 1. We live at 205 Kennedy Drive, West Frankfort, IL 62896."

Benjamin L. Hankins writes: "My deepest admiration to the chancellor for halting excessive alcohol abuse during the St. Patrick's celebration. To the GEs, good luck in your new home. It sure will



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be an improvement over the old facility." Benjamin is a civil engineer/project engineer-inspector with the U.S. Army Corps of Engineers, Baltimore District. His address is 8567 Enochs Drive, Lorton, VA 22079.

Randall W. Lewis writes: "Mary Jane and I are happy to announce the birth of our son, Jonathon Alexander, on Jan. 3, 1988. He has a sister, Elizabeth Jo, who is 4 years old." Randall is section manager, operations, No. 11 Battery, with Inland Steel, East Chicago, Ind. His home address is 375 Ellendale Parkway, Crown Point, IN 46307.

Roland A. St. John writes: "I've recently been transferred from Tulsa, Okla. to the Texas Panhandle (McLean, Canadian, Pampa). My address is 2113 N. Russell, Pampa, TX 79065." Roland is an engineer with Warren Petroleum Co., a division of Chevron USA.

Alumni Personals

1982

Tom Blackburn, '82, '84, writes: "Everything is great in Texas. I'm proud to say that our Alpha Testing Fort Worth office is putting out some very high quality geotechnical and materials engineering services throughout the Southwest. We are 2½ years old and steadily growing. My home address is 1920 Crooked Lane, Fort Worth, TX 76112."

Mark, '82, '83, and Cindy (Kapp, '83) Buchschacher write: "We were blessed with the birth of a daughter, Sarah Helen, on Dec. 16, 1987. She has really brightened our lives." Mark is a senior engineer, technology-strength, with McDonnell Aircraft Co. Cindy is employed by Madesco Investment Corp. Their address is 17 Valley View, St. Peters, MO 63376.

Michael L. Huff and Delia Lynette Myers of Ponca City, Okla. were married in Ponca City Nov. 21, 1987. He is an assistant analyst, operations research, with Conoco Inc. Their address is 3408 El Camino, Ponca City, OK 74604.



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Craig S. Johnson writes: "I invite my classmates to contact me at 2020 Foggybottom, Florissant, MO 63031, phone 314-921-7798." Craig is a quality engineer with McDonnell Aircraft.

Don McIntosh writes: "I'm currently living in the Chicago area and am a private consultant/contract engineer (president of McIntosh Industrial Software). Automation for manufacturing processes and front-end information systems are my primary services. This includes distributive control system design, PLC software, and supervisory computer software. Most of my work has been for the automotive, aircraft, chemical and food industries." Don's home and business address is 5810 Raintree Court, Westmont, IL 60559.

Charles A. Richey, lieutenant, U.S. Navy, writes: "Doing great in the Philippines. Just returned from my second tour on board U.S.S. Midway in the Persian Gulf (Charles is a Naval aviator). Susan and I are looking forward to coming back to the states after being overseas all these years." The Richeys' address is VRC-50, #272, FPO San Francisco CA 96654.

Todd W. Rush, '82, '84, writes: "Since retiring from the oil fields of Texas, I have been working for McDonnell Aircraft Co. doing computer-aided design drafting training, design and production. My wife, **Marty (Zavala, '85)** and I are living at 1239-E Creve Coeur Crossing Lane, Chesterfield, MO 63017, (phone 314-576-1938) with our two baby girls—kittens!"

Kimberly (Signorino) Street writes: "I am an engineer in the maintenance engineering division of the U.S. Army Troop Support Command. All is going well there. My husband, **Norm Street, '83**, and I had our first child, Amanda

Lauren, on Feb. 7, 1988. We are having a great time being parents." Norm is supervisor of new product development for Hussman Refrigeration Inc. The Streets' address is 1429 Woodstone Drive, St. Charles, MO 63303.

1983

Dawna M. Brown and Jay Brian Immele, both '83, were married Oct. 31, 1987, in St. Joseph, Mo. Dawna is a teacher at United Cerebral Palsy and Jay is an engineer at St. Joseph Light and Power Co. Their address is 3645 Gene Field Road, Apt. F-17, St. Joseph, MO 64506.

Cindy (Kapp) and Mark, '82, '83, Buchschacher write: "We were blessed with the birth of a daughter, Sarah Helen, on Dec. 16, 1987. She has really brightened our lives." Mark is a senior engineer, technology-strength, with McDonnell Aircraft Co. Cindy is employed by Madesco Investment Corp. Their address is 17 Valley View, St. Peters, MO 63376.

Anne E. Burton and Blaine Jeffrey Laufman were married Oct. 10, 1987, in Greenwood, Ind. Both are employed by IBM in Research Triangle Park, N.C. Their address is 2504 Duck Pond Circle, #B, Morrisville, NC 27560.

Greg Fleck writes: "I still work for Delco Electronics in Kokomo, Ind., designing the package for the computer that controls fuel flow in GM's cars. **Kathy (Von Rump, '84)** has received a GM Fellowship and will be going back to school for her M.B.A." Greg and Kathy's address is 3800 Pamela Court, Kokomo, IN 46902.

Alumni Personals

1983 continued

Michael D. Fortune writes: "I completed nine-month U.S. Army Reserves helicopter pilot training in August '87 at Fort Rucker, Ala." Michael is also a design engineer with McDonnell Douglas. His address is 1886 Woodhollow, Apt. 111, St. Louis, MO 63043.

Jerry A. Gentry, a lieutenant J.G. in the U.S. Navy, recently returned from a six-month deployment to the Indian Ocean and North Arabian Sea aboard the guided missile cruiser USS Buchanan. His permanent address is Route 3, Box 57, Osceola, MO 64776.

Dan and Laura Harrington, both '83, announce the birth of their second daughter, Natalie Ruth, on Jan. 25, 1988. She joins Elizabeth Grace, age 2. The Harrington's address is Route 1, Box 271, Anna, IL 62906. Dan is chief engineer for Transcraft Corp.

Barbara L. Johnson writes: "Still enjoy working as a geohydrologist for Wilson & Co., Engineers and Architects, and still enjoy living in Kansas. Would welcome visitors who may be passing through." Barbara's address is 1228 Wilbre Road, Salina, KS 67401.

Jeffrey R., '83, '84, and Loretta Ellen Scheibal, '84, write: "We are pleased to announce the birth of a son, Jacob Jeffrey, on May 15, 1987. Jacob joins a brother, Zachary Robert, 2½ years old. Jeff is a petrophysical engineer with Shell Offshore Inc. Ellen is at home with their two boys. Our address is 380 Ridgewood Drive, Mandeville, LA 70448."



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Joe A. Soughers writes: "I am currently employed by the Indiana Department of Natural Resources, Division of Reclamation, as a geological engineer. I design reclamation bond forfeitures. I'm wondering what has become of **Ted Salveter, '83**. Give me a call, Ted, at 812-383-7307 (home) or 812-665-2207 (work). My address is Route 1, Box 102, Shelburn, IN 47879."

Charles L. Stone, 14-14 Beacon Hill Drive, Holland, PA 18966, writes: "I recently left employment with a national management consulting company to become an independent systems consulting contractor. I am currently working with an apparel manufacturer in Allentown, Pa. "

Norman E. and Kimberly (Signorino, '82) Street, write: "Kim is an engineer in the maintenance engineering division of the U.S. Army Troop Support Command. All is going well. We had our first child, Amanda Lauren, on Feb. 7 1988.

We are having a great time being parents." Norm is supervisor of new product development for Hussman Refrigeration Inc. Their address is 1429 Woodstone Drive, St. Charles, MO 63303.

1984

Ramsey El-Fakir writes: "Call me if you want to see the Big Apple. I'm having a great time in NYC." He is an oil analyst with Mobil Oil Corp. His address is 200 E. 90th, New York, NY 10128, phone: 212-722-1586.

Kathy (Von Rump) and Greg, '83, Fleck write: "Greg is still working for Delco Electronics in Kokomo, Ind. designing the package for the computer that controls fuel flow in GM's cars. Kathy has received a GM Fellowship and will be going back to school for her M.B.A." Their address is 3800 Pamela Court, Kokomo, IN 46902.

Alumni Personals



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1984 continued

Eunice P. French, director of International Programs and Studies at UMR, writes: "My UMR degree, coupled with on-the-job experience, opened doors to a higher position with UMR. One would not have worked without the other (e.g., degree without training) but together... a directorship!" Eunice's address is Route 4, Box 212, Rolla, MO 65401.

Scott D. Gahring writes: "I have completed my first tour at Air Force's armament division, Eglin Air Force Base, Fla. I'm currently attending undergraduate space training at Lowry Air Force Base, Colo. My follow-on assignment will be at the satellite control facility, Onizuk Air Force Base, Calif. I completed my M.B.A. at the University of West Florida in December '87." Scott's current address is 14152 E. Tennessee, Apt. 2345, Aurora, CO 80012.

Scott G. Giltner, '84, '86, writes: "Still enjoying the warm summers and mild winters of South Africa. I recently visited Botswana and hope to visit Zimbabwe and Zambia in the near future. Also, will Reed and Stump please 'phone home'; the witch doctor can't find you." Scott is a research engineer with the Chamber of Mines Research Organization. His address is P.O. 91230, Auckland Park, South Africa, 2006.

Phillip A. Koehr writes: "Completed B.S. in computer science at UMSL in January, 1988. Recently started work at Lumbermate as a programmer." Phillip lives at 3892A Humphrey, St. Louis, MO 63116.

B.J. Ripp writes: "I married Susan Sorensen Nov. 7, 1987. I left Shannon and Wilson Inc. for a geological engineer's position at Geotechnology Inc. in St. Louis." B.J.'s address is 1606 High School School Drive, St. Louis, MO 63144.

Loretta Ellen and Jeffrey R. Scheibal '83, '84, write: "We are pleased to announce the birth of a son, Jacob Jeffrey, on May 15, 1987. Jacob joins a brother, Zachary Robert, 2½ years old. Jeff is a petrophysical engineer with Shell Offshore Inc. Ellen is at home with their two boys. Our address is 3800 Ridgewood Drive, Mandeville, LA 70448."

William A. Stone has married Jacqueline A. Prenger of Jefferson City. Both are employed by the Missouri Highway and Transportation Department. Their address is 210 Gordon St., #B, Jefferson City, MO 65101.

William C. (Bill) Wagner and Cynthia L. (Doerflinger, Tweedy) Wagner were married Sept. 12, 1987 in Amityville, N.Y. Cindy's daughter, Richelle, 2, was honorary flower girl. Bill's brother, **Rich Wagner**, '67, and his wife, Liz, were best man and matron of honor. Bill is an associate project engineer in the standards department at Underwriters Laboratories Inc., Melville, N.Y. Cindy is a process engineer with American Technical Ceramics Corp. in Huntington Station, N.Y. Their new address is 704 Pease Lane, West Islip, NY 11795.

Kenna Roberson Yarbrough writes: "Moved to Denver, Colo. in '87, got married to Steve Yarbrough, and am settling down in a new job with the government as a geological engineer, U.S. EPA (National Enforcement Investigations Center)." The Yarbroughs live at 2700 S. Fairfax St., Denver, CO 80222.

John W. Zuiss writes: "I was recently promoted to technical operations group leader at Motorola Inc.'s newest plant. My home address is 405 Baker St., Mt. Pleasant, IA 52641."

1985

Bruce A. and Shelly Boyd proudly announce the birth of their first child, Marisa Danielle, on Jan. 9, 1988. Bruce has been promoted from design and construction engineer to gas supply operations representative with Midcon Services. Bruce and Shelly live at 5438 Haven Oaks, Kingwood, TX 77339.

Alumni Personals

1985 continued

Jim Carter writes: "Greetings from Miz-zou! Pam, Jon (born July 10, 1987) and I are all doing fine. I'm working on an M.S. in accountancy and teaching two classes on the side. As long as account-ing doesn't go the way of petroleum, I'll be back in the 'real world,' hopefully in St. Louis, within a year. Write us at 4303 Ludwick, Columbia, MO 65203."

Deirk A. Feiner writes: "Maria, Jona-than and Deirk say 'hi' to all our man-agement friends. We enjoy Chicagoland and environs. Both of us are starting on our masters' in management degrees soon at Purdue University. Otherwise we are just getting by. Stop by to visit—we enjoy the company." Deirk is pro-duction supervisor, third shift, for Ameri-can-National Can Co. The Feiners live at 3823 W. 123rd St., Apt. 201, Alsip, IL 60658.

Barry D. Freiner writes: "I will be mar-ried on June 4, 1988, to Lisa Ehrenreich of Barnhart, Mo. We will be residing in the South County area of St. Louis." Barry is manager, engineering design, for Southwestern Bell Telephone. Until June his address is 3029 Sherwood Lane, St. Charles, MO 63301.

Richard J. Heisse writes: "Cathy and I are enjoying our new daughter, Chris-tina Marie, immensely. I have taken a production supervision job with Nabisco Brands Inc. making Eggbeaters. It's a terrific job but keeps me very busy. It sure would be nice to hear from some of my old college buddies." Richard, Cathy and baby live at 3751 Delor, St. Louis, MO 63116.

Steven Herberholt writes: "Working for McAir F-15. I am responsible for escape subsystem. Feb. 26 is my last day on the F-15. Moving to F-18 escape subsystem (pyrotechnics) for approximately a three-month stint, then on to A.T.A. to work on a similar job. I am engaged to be married to my finance, Lynnette, March 18, 1989." Steven's address is 10352 Gol-terman Drive, St. Louis, MO 63126.

Kurt D. Keohler, '85, '87, writes: "How-dy, howdy, howdy. Look at me, I'm a Californian. Sun and fun is a chore, but somebody's got to do it. I'm slowly get-ting my act together and hope to get in touch with those of you who are reading this. Take it easy." Kurt is a well evalua-tion coordinator for Shell Western E & P Inc. His address is 8101 Camino Media, #158, Bakersfield, CA 93311.

G. Tod Rowe writes: "Sandy and I had a little baby boy, Barry Allen, July 3, 1987, and we are very happy in Spring-field, Ill. Also, just wanted to tell all my old classmates 'hi.'" Tod is an environ-mental protection engineer with the Illi-nois EPA's Division of Land. The Rowes' address is 546 W. Miller, Apt. D, Springfield, IL 62702.

Eric S. Strobe writes: "I have taken a new posiiton with IRECO Inc. as a technical sales representative. My ad-dress is 2718 Wesley, Jefferson City, MO 65109."

for a small software firm, Information Data Management, which writes and supports database software for blood processing and tracking. One of their biggest customers is the American Red Cross. I am working with Northrop DSD in Rolling Meadows as a software engineer. We are expecting our first child March 13. Our current address is 2282 W. Nichols Road, Apt. A, Arling-ton Heights, IL 60004."

Rodney L. Jenkins writes: "I am pres-ently employed as an associate engineer by M-K Ferguson Co. (Department of Energy subcontractor at the Weldon Spring Remedial Action Project). I par-ticipated in the development of the man-agement control system for cost/sche-dule control system criteria validation by the Department of Energy. Duties include statusing of the CPM schedule, development of various special studies, and the production of monthly and weekly project reports. I presently live at 9678 Baltimore, St. Louis, MO 63114."



1987 Rollamo

1986

John R. Buescher and Jennifer L. Baris, both '86, were married Feb. 21, 1987. Jennifer writes: "John and I live in the Chicago suburban area. John works

Alumni Personals

1986 continued

Nancy G. (Gott) and S. Todd Kaegi, '87, write: "Todd heads out to Vandenburg Air Force Base for four months training and then puts on long underwear and heads for his first assignment at Minot Air Force Base, N.D. We are expecting a new tax shelter/money sink. It's due July 7 or so." Nancy is a quality control supervisor with Kerr McGee in Springfield, Mo. Todd is a 2nd lieutenant with the U.S. Air Force. Their permanent address is 2149 E. Sunshine, #216C, Springfield, MO 68804.

Amy Marie Noel married Henry Lampazzi Nov. 28, 1987, in Clear Lake City, Texas. Both are employed at NASA-JSC in Houston, Texas as aerospace engineers, training astronauts and flight controllers. Their address is 16102 Seashore, Houston, TX 77062.

Terry G. Read has been commissioned an ensign in the U.S. Navy after successful completion of Officer Candidate School, Newport, R.I. Terry is now attending supply corps school at Athens, Ga. His permanent address is Route 1, Gallatin, MO 64640.

Janice K. "Jan" Wilkerson writes: "Hi everybody! Everything's fine here in Pennsylvania. I've been keeping myself busy with work and also have been playing basketball and indoor soccer during the week. In February I took a trip to the Grand Canyon to hike down to the Colorado River and back out, and had a super time. That's been something I've wanted to do ever since I was out there during field camp." Jan is an assistant

engineer with Baker/TSA. Her address is 31 Sunnyhill Drive, Beaver Falls, PA 15010.

1987

Catherine C. Duncan, writes: "I'm a process engineer for Lever Bros. Co. and I'm working in the quality assurance department and enjoying it tremendously. I also passed the E.I.T." Her address is 1104 Indian Circle, Apt. A, St. Louis, MO 63132.

G. Robert Farmer Jr. was married Dec. 20, 1987, to Garalyn Cowley of Lee's Summit, Mo. Bob is an electrical engineer with McDonnell Douglas Aircraft in St. Louis. His address is 301 Chaparral Creek, #1511, Hazelwood, MO 63042.

S. Todd Kaegi writes: "I head out to Vandenburg Air Force Base for four months training and then put on long underwear and head for my first assignment at Minot Air Force Base, N.D. My wife, **Nancy (Gott, '86)**, and I are expecting a new tax shelter/money sink. It's due July 7 or so." Todd is a 2nd lieutenant in the USAF. Nancy is a quality control supervisor with Kerr McGee. Their permanent address is 2149 E. Sunshine, #216C, Springfield, MO 68804.

Dwane A. Mattmuller has joined the A.B. Chance Co. in Centralia, Mo. as a manufacturing engineer in the plastics factory. His current address is Chance Apartments, Centralia, MO 65240.

Stan Winkle writes: "I am the assistant engineer at Cuivre River Electric Cooperative, Troy, Mo. My address is 40 Bent Twig Drive, Apt. 6, Lake St. Louis, MO 63367."



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